Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

Summer **

Fall

Spring

| | | (March - May) | (June - August) | (September - November) | (December - February) | | | | | | |
|-----------------------------|--|---|-----------------|------------------------|-----------------------|--|--|--|--|--|--|
| † Overall LMA | A Rating (Fall Only) | | | | | | | | | | |
| | | ** Non-receipt of Summ Reports may effect or | | | | | | | | | |
| † SPRING INSPECTIONS: Or de | | ratings are not determ | | | ual maintenance | | | | | | |
| | <u>FALL INSPECTIONS:</u> The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk. | | | | | | | | | | |
| Comments | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles |
|----------------------------|-------|------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|-------------------------------------|--|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 5/3/2017 - 5/3/2017 | | | |
| DWR Inspector | Bob Duffey | | | |
| Accompanied By | Shawn Freitag Sutter Maintenance Yard | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | | Rating ** | Α | Issue No. | | 1 | |
|---------------------------------|------------------------------|--------------|----------|------------|--------|--------------|---|
| LM End | | Issue Type + | Ma | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | de/Longitude | |
| Calegory | | | | Start | | End | |
| Item | | s & Maintena | nce | | 0 | | 0 |
| пеш | ⁿ Manuals | | | | ٥ | | 0 |
| DWR ID DWR_MA0013_01_s _ 2013_1 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| | | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| The LMA h | The LMA has the O&M manuals. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

| LM Start | | Rating ** | Α | Issue No. | | 8 | | |
|------------------------|-------------------------------------|----------------|------------------------|------------|---|-----|---|--|
| LM End | | Issue Type + | Ma | Location * | | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | | |
| Itom | Item Emergency Supplies & Equipment | | | | 0 | | 0 | |
| пеш | | | | | 0 | | 0 | |
| DWR ID | DWR_MAG | 013_01_s _ 201 | 3_8 | | | | | |
| | Comment Code | | | | | | | |
| | | | | | | | | |

No Photos

Inspector Comment
The LMA has adequate flood fight supplies and equipment.

| LM Start | | Rating ** | Α | Issue No. | | 16 | | |
|------------------------|-------------------|----------------------------|------------------------|------------|---|-----|---|--|
| LM End | | Issue Type + | Ма | Location * | | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | | |
| Item | Flood Pre | od Preparedness & Training | | | 0 | | 0 | |
| пеш | | | | | 0 | | 0 | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 3_16 | | | | | |
| | | Comn | nent Cod | le | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Inspector Comment | | | | | | | |
| The LMA o | completed | flood fight trai | ning in 2 | 014. | | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS : Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 0.27 | Rating ** | U | Issue No. | 90 | | |
|--------------|----------|----------------|------------------------|------------|-----|--------------|--|
| LM End | 0.27 | Issue Type + | En | Location * | LS | | |
| Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Category | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.59309 | 4 ° | 39.593094° | |
| пеш | | | | -121.70357 | 0 ° | -121.703570° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50973 DS_ID:16327 EP_NO: 6135 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (DWR Sutter Yard-AFreitag)4/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5)7/14/2015 Pipe end is still welded solid.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.

FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (Permit No. 6135, 1968 - George Washington) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 11/28/2016 8:45:31 AM

| LM Start | 0.27 | Rating ** | U | Issue No. | 90 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.27 | Issue Type + | En | Location * | LS |



Overview of the crossing.

Photo 2 of 3: UCIP_SP_2017_50973_66683.jpg



Air Vent located on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 0.27 | Rating ** | U | Issue No. | ssue No. 90 | | |
|----------|----------|----------------|----|------------------------|-------------|-------------|---|
| LM End | 0.27 | Issue Type + | En | Location * | LS | | |
| Category | Suppleme | ental | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.59309 | 4 ° | 39.593094 | 0 |
| пеш | | | | -121.70357 | o° | -121.703570 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50973 DS_ID:16327 EP NO: 6135 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Appears no repairs have been made here yet as LS slope is still dug away. (DWR Sutter Yard-AFreitag)4/28/2016 8-inch pipe was running water but was leaking at a weld joint on the LS slope. Pipe appears to have been dug out by the landowner but unsure if repairs are being made yet. (see photo 5)7/14/2015 Pipe end is still welded solid.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/10/2013 Same as last inspection.

FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 2.8 feet below the crown. Permit requirements are as follow: during the flood season the 5-inch irrigation pipe will be removed and a plate bolted over the waterside (WS) end of the 8-inch. Pipe section is completely buried. Current configuration does not allow for 5-inch irrigation pipe to slide pipe through. 8-inch pipe is welded solid. (Permit No. 6135, 1968 - George Washington) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 11/28/2016 8:45:31 AM



Air vent and gate located in channel. Unable to determine if part of crossing.

| LM Start | 0.46 | Rating ** | М | Issue No. | o. 89 | | |
|------------------------|---------------------------|--------------|------------------------|------------|--------------|--------------|--|
| LM End | 0.46 | Issue Type + | En | Location * | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Calegory | | | Start | | End | | |
| Item | Encroach | ments | | 39.59110 | 62° | 39.591162° | |
| пеш | | | | -121.70182 | 20° | -121.701820° | |
| DWR ID | DWR_MA0013_01_s _ 2017_89 | | | | | | |
| Comment Code | | | | | | | |

PR: Prunings

Inspector Comment

Remove the prunings from the landside slope.

Photo 1 of 1: SP_2017_MA0013_300_89_20170508_00145.jpg



View of prunings along the landside slope.

| Location | |
|----------------|---------------------|
| LS: Land Side | N/A: Not Applicable |
| WS: Water Side | |
| CP · Crown | |

Rating Acceptable

Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected

A/W: Acceptable but Monitor & Maintain

Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 0.63 | Rating ** | M | Issue No. | | 46 | |
|------------|--|----------------|----------|--------------|--------|-----------------|--|
| LM End | 0.63 | Issue Type + | En | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Encroach | Encroachments | | | 37° | 39.589337° | |
| item | | | | -121.700604° | | ° -121.700604 ° | |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | 6_46 | | | | |
| | | Comn | nent Cod | le | | | |
| PR : Pruni | ngs | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| Remove th | Remove the prunings from the landside toe. | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

| LM Start | 0.63 | Rating ** | М | Issue No. | | 14 | | |
|-------------------|---------------|----------------|----------|--------------|--------|-------------|---|--|
| LM End | 1.17 | Issue Type + | En | Location * | | LS | | |
| Category | Earthen Levee | | | GPS La | atitud | e/Longitude | | |
| Category | | | | Start | | End | | |
| Item | Encroachments | | | 39.5892 | 72° | 39.581472 | 0 | |
| пеш | | | | -121.700599° | | -121.700518 | 0 | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 12_14 | | | | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

No Photos

| LM Start | 0.73 | Rating ** | М | Issue No. | | 12 | |
|------------|-----------|-----------------|-----------|---------------|--------|-----------------|--|
| LM End | 0.76 | Issue Type + | En | Location * | LS | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | |
| | | | Start | | End | | |
| Item | Encroach | ments | | 39.5879 | 05 ° | 39.587505 ° | |
| пеш | | | | -121.700822 ° | | ° -121.700880 ° | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 2_12 | | | | |
| | | Comn | nent Cod | le | | | |
| EQ : Equip | ment | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| Remove th | e equipme | ent from the la | ındside t | oe. | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Photo 1 of 1: SP_2017_MA0013_300_12_20170315_00005.jpg

View of the equipment along the landside toe of the levee.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 0.87 | Rating ** | С | Issue No. | | 44 |
|-------------|--|----------------|----------|---------------|-------------|---------------|
| LM End | 0.87 | Issue Type + | En | Location * | | LS |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude |
| Calegory | | | | Start | | End |
| Item | Encroach | ments | 39.5858 | 57° | 39.585857 ° | |
| item | | | | -121.700540 ° | | -121.700540 ° |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 5_44 | | | |
| | | Comn | nent Cod | le | | |
| PR : Pruni | ngs | | | | | |
| | | | | | | |
| | | Inspecto | or Comm | nent | | |
| The pruning | The prunings were removed from the landside slope. | | | | | |
| | | | | | | |
| | | | | | | |

No Photos

| LM Start | 0.94 | Rating ** | М | Issue No. | | 20 | |
|------------|-------------------|----------------|----------|---------------|-----|---------------|--|
| LM End | 0.94 | Issue Type + | En | Location * | LS | | |
| Category | Earthen L | GPS La | atitud | e/Longitude | | | |
| Category | | | | Start | | End | |
| Item | Encroach | ments | | 39.5848 | 85° | 39.584885 ° | |
| пеш | | | | -121.700487 ° | | -121.700487 ° | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 3_20 | | | | |
| | | Comn | nent Cod | le | | | |
| PR : Pruni | PR : Prunings | | | | | | |
| | | | | | | | |
| | Inspector Comment | | | | | | |

Remove prunings from the landside toe.

Photo 1 of 1 : SP_2017_MA0013_300_20_20170315_00007.jpg

View of the prunings along the landside toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.13 | Rating ** | A/W | Issue No. | | 91 | |
|----------|----------|--------------|-----------|------------------------|-----|-------------|---|
| LM End | 1.13 | Issue Type + | Ma | Location * | | LS | |
| Category | Suppleme | ental | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5821 | 47° | 39.582147 | 0 |
| пеш | | | | -121.7005 | 40° | -121.700540 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50975 DS_ID:16343 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/10/2013 Same as last inspection.4/17/2012 Drain is still in use. 4 inch pipe in channel near WS headwall (see photo). The pipe does not appear to impact the crossing.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS). Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.15)]

FS Date: 11/28/2016 8:52:29 AM

| LM Start | 1.13 | Rating ** | A/W | Issue No. | 91 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 1.13 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50975_66689.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_50975_66688.jpg



View of WS headwall and flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.13 | Rating ** | A/W | Issue No. | | 91 (cont) | | |
|----------|--------------|-----------------|------------|------------|------------------------|-------------|---|--|
| LM End | 1.13 | Issue Type + Ma | | Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.58214 | ۱7° | 39.582147 | 0 | |
| пеш | | | | -121.70054 | 0 ° | -121.700540 | 0 | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50975 DS_ID:16343 EP NO: N/A

easements

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/10/2013 Same as last inspection.4/17/2012 Drain is still in use. 4 inch pipe in channel near WS headwall (see photo). The pipe does not appear to impact the crossing.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS). Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.15)]

FS Date: 11/28/2016 8:52:29 AM

Photo 3 of 3: UCIP_SP_2017_50975_66687.jpg



View of WS with pipe in channel.

| LM Start | 1.17 | Rating ** | М | Issue No. | 52 | |
|----------------------------------|-----------|------------------------|----|------------|------|------------|
| LM End | 1.24 | Issue Type + | Ma | Location * | | LS |
| Category | evee | GPS Latitude/Longitude | | | | |
| Category | Start | | | | End | |
| Item | Vegetatio | n | | 39.5814 | 41 ° | 39.581385° |
| пеш | | -121.700532° -121.70 | | | | |
| DWR ID DWR_MA0013_01_f _ 2016_52 | | | | | | |
| Comment Code | | | | | | |

Inspector Comment

V1 : Control annual grass and weeds on the levee slopes and

Photo 1 of 1: SP_2017_MA0013_300_52_20170315_00010.jpg



View of the vegetation along the landside slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.59 | Rating ** | U | Issue No. | | 92 | | | |
|----------|--------------|-----------------|------------|------------|-----|------------------------|--|--|--|
| LM End | 1.59 | Issue Type + Ma | | Location * | | LS | | | |
| Category | Supplemental | | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.57688 | 3° | 39.576883 ° | | | |
| пеш | | | | -121.70277 | ° 0 | -121.702770 ° | | | |
| DWR ID | | | | | | | | | |

Inspector Comment

Comment Code

FS_ID:50976 DS_ID:16831 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS structures still removed. (DWR Sutter Yard- AFreitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)

4/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)7/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 4/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.62)] FS Date: 11/28/2016 9:12:52 AM

Photo 1 of 3: UCIP_SP_2017_50976_66695.jpg



Overview of levee crown at crossing looking downstream.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.59 | Rating ** | U | Issue No. | | 92 (cont) | |
|----------|--------------|--------------|-----------|------------|------------------------|---------------|--|
| LM End | 1.59 | Issue Type + | Ма | Location * | | LS | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.57688 | 3° | 39.576883° | |
| пеш | | | | -121.70277 | o° | -121.702770 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50976 DS_ID:16831 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

FS Date: 11/28/2016 9:12:52 AM

UCIP Comments: 11/16/2016 WS structures still removed. (DWR Sutter Yard- AFreitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)

4/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)7/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 4/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.62)]

Photo 2 of 3: UCIP_SP_2017_50976_66699.jpg

Corrugated metal riser with slide gate located on WS slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.59 | Rating ** | U | Issue No. | | 92 (cont) | | | |
|----------|--------------|-----------------|------------|------------|------------------------|-------------|---|--|--|
| LM End | 1.59 | Issue Type + Ma | | Location * | | LS | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | Start | | End | | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.57688 | 3° | 39.576883 | 0 | | |
| пеш | | | | -121.70277 | o° | -121.702770 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS ID:50976 DS_ID:16831 EP NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS structures still removed. (DWR Sutter Yard- AFreitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)

4/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)7/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 4/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.62)]

Photo 3 of 3: UCIP_SP_2017_50976_66698.jpg



WS headwall, rock protection, and outlet blocked by shrub.

FS Date: 11/28/2016 9:12:52 AM

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.66 | Rating ** | М | Issue No. | | 93 | | | | |
|----------|----------|----------------------------|---|----------------------------|-----|---------------|--|---------------------------|--|----|
| LM End | 1.66 | Issue Type + En Location * | | Issue Type + En Location * | | Location * | | ssue Type + En Location * | | LS |
| Category | Suppleme | ental | | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | | | | |
| Item | DWR UC | IP Field Study | | 39.5758 | 16° | 39.575816° | | | | |
| пеш | | | | -121.7029 | 00° | -121.702900 ° | | | | |
| DWR ID | | | | | | | | | | |

Inspector Comment

Comment Code

FS_ID:50977 DS_ID:16345 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 PVC pipe still present blocking the screw gate. (DWR Sutter Yard- AFreitag)4/28/2016 Pvc pipe is still present through the crossing. Slide gate cannot shut fully.7/14/2015 4-inch pipe still present and blocking the screw gate.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing.

FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS). 36-inch concrete standpipe in the channel with 2 piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.69)] FS Date: 11/28/2016 9:13:39 AM

| LM Start | 1.66 | Rating ** | М | Issue No. | 93 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 1.66 | Issue Type + | En | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50977_66700.jpg



Overview of levee at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_50977_66704.jpg



WS view looking upstream.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 1.66 | Rating ** | М | Issue No. | | 93 (cont) |
|----------|--------|------------------------|---------------|------------|-----|--------------|
| LM End | 1.66 | Issue Type + | En | Location * | LS | |
| Category | ental | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | P Field Study | P Field Study | | | 39.575816° |
| пеш | | | | -121.70290 | 00° | -121.702900° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:50977 DS_ID:16345 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 PVC pipe still present blocking the screw gate. (DWR Sutter Yard- AFreitag)4/28/2016 Pvc pipe is still present through the crossing. Slide gate cannot shut fully.7/14/2015 4-inch pipe still present and blocking the screw gate.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing.

FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS). 36-inch concrete standpipe in the channel with 2 piles to deflect debris. [Additional Reference(s): DWR Levee Log. 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 1.69)] FS Date: 11/28/2016 9:13:39 AM

Photo 3 of 3: UCIP_SP_2017_50977_66702.jpg



Positive closure device on WS slope, panel lid fell in.

WS: Water Side CR : Crown

Rating A: Acceptable : Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 2.31 | Rating ** | М | Issue No. | | 94 |
|----------|--------|------------------------|----------|------------|-------------|---------------|
| LM End | 2.31 | Issue Type + | En | Location * | LS | |
| Category | ental | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | 39.56643 | 3° | 39.566433 ° | |
| пеш | | | | -121.70375 | 0 ° | -121.703750 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:50978 DS_ID:16346 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Appears abandoned. Unable to find anything on LS. (DWR Sutter Yard- AFreitag)4/28/2016 Appears to be an abandoned crossing. LS headwall and pipe inlet are still completely buried.7/14/2015 Still cannot find an inlet or outelt.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Pipe continues across channel. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.35)] FS Date: 11/28/2016 9:14:42 AM

| LM Start | 2.31 | Rating ** | М | Issue No. | 94 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 2.31 | Issue Type + | Fn | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50978_66708.jpg



Overview of crossing looking DS.

Photo 2 of 3: UCIP_SP_2017_50978_66709.jpg



Corrugated riser located on WS slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 2.31 | Rating ** | М | Issue No. | | 94 (cont) | |
|----------|--------|------------------------|----|------------|----|--------------|--|
| LM End | 2.31 | Issue Type + | En | Location * | LS | | |
| Category | ental | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | P Field Study | | 39.56643 | 3° | 39.566433° | |
| пеш | | | | -121.70375 | o° | -121.703750° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50978 DS_ID:16346 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Appears abandoned. Unable to find anything on LS. (DWR Sutter Yard- AFreitag)4/28/2016 Appears to be an abandoned crossing. LS headwall and pipe inlet are still completely buried.7/14/2015 Still cannot find an inlet or outelt.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Pipe continues across channel. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.35)] FS Date: 11/28/2016 9:14:42 AM



Corrugated metal riser on WS slope. Lid panel blocking gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 2.70 | Rating ** | A/W | Issue No. | | 95 | | | |
|----------|----------|--------------|-----------|------------|-----|------------------------|---|--|--|
| LM End | 2.70 | Issue Type + | Ma | Location * | | LS | | | |
| Catagony | Category | | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | P LMA Respo | nsibility | 39.5611 | 30° | 39.561130 | 0 | | |
| пеш | | | | -121.7051 | 40° | -121.705140 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50979 DS_ID:16347 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Vegetation/sedimentation from WS has been removed. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect

ID#USACE_CESPK_M13D_2011_p_0130 for WS flap gate closed and blocked by sediment.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.74)]

FS Date: 11/28/2016 9:16:38 AM

| LM Start | 2.70 | Rating ** | A/W | Issue No. | 95 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 2.70 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50979_66715.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3: UCIP_SP_2017_50979_66714.jpg



Flap gate at WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 2.70 | Rating ** | A/W | Issue No. | | 95 (cont) | |
|----------|----------|--------------|-----------|------------|-------|--------------|---|
| LM End | 2.70 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | ental | | GPS La | titud | le/Longitude | |
| Calegory | | | | | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.56113 | 80° | 39.561130 | 0 |
| Item | | | , | | 0 ° | -121.705140 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50979 DS_ID:16347 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 Vegetation/sedimentation from WS has been removed. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect

ID#USACE_CESPK_M13D_2011_p_0130 for WS flap gate closed and blocked by sediment.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

O&M Manual 519, June 1962 (HLM 2.74)] FS Date: 11/28/2016 9:16:38 AM Photo 3 of 3: UCIP_SP_2017_50979_66711.jpg



View of channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.05 | Rating ** | M | Issue No. | | 96 | |
|----------|----------|--------------|-----------|------------|--------|--------------|---|
| LM End | 3.05 | Issue Type + | Ma | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | atitud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5563 | 10° | 39.556310 | 0 |
| пеш | | | | -121.7064 | 70° | -121.706470 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50980 DS_ID:17372 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Pipe about 50% full of sediment. (DWR Sutter Yard- AFreitag)4/28/2016 Pipe on LS is about 50% full of sediment. There is now a concrete pipe that dicharges into the LS inlet of this crossing. Not sure where the concrete pipe comes from.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition.7/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall.4/17/2012 LS headwall blocked by sediment (50 % of opening is covered). LS floor is higher than LS pipe invert. WS headwall has been recently cleared of vegetation and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0157 for WS and LS inlet/outlet blocked by sediment.

through the levee, 11.8 feet below the crown. Flapgate is located on the waterside (WS). Concrete headwall located located on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 3.10)]

FS Date: 11/28/2016 9:44:54 AM

| LM Start | 3.05 | Rating ** | М | Issue No. | 96 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 3.05 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50980_66718.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3: UCIP_SP_2017_50980_66716.jpg



WS levee slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.05 | Rating ** | М | Issue No. | | 96 (cont) |
|----------|----------|-----------------------|------------|-------------|-------------|-------------|
| LM End | 3.05 | Issue Type + | Ma | Location * | | LS |
| Category | Suppleme | nental GPS Latitude/L | | | e/Longitude | |
| Calegory | | | | | | End |
| Item | DWR UC | P LMA Respo | onsibility | 39.55631 | o° | 39.556310 |
| пеш | | | | -121.706470 | ° | -121.706470 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:50980 DS_ID:17372 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Pipe about 50% full of sediment. (DWR Sutter Yard- AFreitag)4/28/2016 Pipe on LS is about 50% full of sediment. There is now a concrete pipe that dicharges into the LS inlet of this crossing. Not sure where the concrete pipe comes from.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Pipe section was dug up and repaired. Crossing is now in good condition.7/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall.4/17/2012 LS headwall blocked by sediment (50 % of opening is covered). LS floor is higher than LS pipe invert. WS headwall has been recently cleared of vegetation and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0157 for WS and LS inlet/outlet blocked by sediment.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.8 feet below the crown. Flapgate is located on the waterside (WS). Concrete headwall located located on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 3.10)]

FS Date: 11/28/2016 9:44:54 AM

Photo 3 of 3: UCIP_SP_2017_50980_66720.jpg



Flap gate on waterside.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.05 | Rating ** | М | Issue No. | | 97 | | |
|----------|----------|----------------|--------------------------|-----------|-------|----------------|---|--|
| LM End | 3.05 | Issue Type + | sue Type + En Location * | | LS | | | |
| Category | Suppleme | oplemental | | | titud | tude/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.55627 | '6° | 39.556276 | 0 | |
| пеш | | | | | 0 ° | -121.706510 | 0 | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50981 DS_ID:16348 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 11/16/2016 Unable to locate. (DWR Sutter Yard-AFreitag)4/28/2016 Unable to locate 7/14/2015 Unable to locate.5/21/2014 Same as last inspection.12/2/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate.4/18/2012 Crossing not visible during the Spring 2012

Inspection. Attempt to find crossing during next inspection when slopes are cleared of vegetation.

FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee at an unknown depth below the crown. Concrete headwall on both waterside (WS) and landside (LS) ends. Flap gate located on the WS end.

[Additional Reference(s): DWR Levee Log, 1993]

FS Date: 11/28/2016 9:47:48 AM

No Photos

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.24 | Rating ** | М | Issue No. | | 98 |
|----------|----------|--------------|------------------------|-------------|-----|---------------|
| LM End | 3.24 | Issue Type + | Ма | Location * | | LS |
| Category | Suppleme | ental | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.55349 | o° | 39.553490° |
| пеш | | | | -121.706680 |) ° | -121.706680 ° |
| DWR ID | | | | | | · |

Comment Code

Inspector Comment

FS_ID:50982 DS_ID:16349 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Both gates closed but partially buried and unable to open. (DWR Sutter Yard- AFreitag)4/28/2016 Sediment

build up on both gates blocking them from operating properly.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last

inspection.12/2/2013 Same as last inspection.7/15/2013 Stem on LS screw gate has been replaced and is now full functional.4/17/2012 LS slide gate stem is bent and prevents gate from fully closing. Both WS and LS have been cleared of debris and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0162 for inoperable gates on WS & LS due to sediment and grass blocking inlet and outlet.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.9 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate visible on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.29)] FS Date: 11/28/2016 10:01:28 AM

 LM Start
 3.24
 Rating **
 M
 Issue No.
 98 (cont)

 LM End
 3.24
 Issue Type +
 Ma
 Location *
 LS

Photo 1 of 3: UCIP_SP_2017_50982_66725.jpg



Overview of levee crown looking DS at crossing.

Photo 2 of 3: UCIP_SP_2017_50982_66724.jpg



Flap gate on WS.

Location Rating Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.24 | Rating ** | М | Issue No. | | 98 (cont) | |
|----------|----------|--------------|-----------|------------|------|-------------|---|
| LM End | 3.24 | Issue Type + | Ма | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude | |
| Calegory | ory | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.55349 | o° | 39.553490 | 0 |
| пеш | item | | | -121.70668 | o° | -121.706680 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50982 DS_ID:16349 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Both gates closed but partially buried and unable to open. (DWR Sutter Yard- AFreitag)4/28/2016 Sediment

build up on both gates blocking them from operating properly.7/14/2015 Crossing appears in good condition. No poticeable issues to report 5/21/2014. Same as last

noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Stem on LS screw gate has been replaced and is now full functional.4/17/2012 LS slide gate stem is bent and prevents gate from fully closing. Both WS and LS have been cleared of debris and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0162 for inoperable gates on WS & LS due to sediment and grass blocking inlet and outlet. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe

through the levee, 8.9 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate visible on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.29)] FS Date: 11/28/2016 10:01:28 AM

Photo 3 of 3: UCIP_SP_2017_50982_66726.jpg



Recent sediment removal on WS.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.27 | Rating ** | A/W | Issue No. | | 99 | |
|----------|----------|--------------|------------|------------|------|---------------|--|
| LM End | 3.27 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.55312 | 9° | 39.553129° | |
| пеш | | | | -121.70664 | o° | -121.706640 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50983 DS_ID:16350 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 WS headwall has been cleared of debris and sedimentation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.31)] FS Date: 11/28/2016 10:04:46 AM

| LM Start | 3.27 | Rating ** | A/W | Issue No. | 99 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 3.27 | Issue Type + | Ma | Location * | LS |



Overview of levee crown at crossing.

Photo 2 of 3: UCIP_SP_2017_50983_66730.jpg



View of WS flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.27 | Rating ** | A/W | Issue No. | | 99 (cont) |
|----------|----------|--------------|-----------|---------------|------|-------------|
| LM End | 3.27 | Issue Type + | Ма | Ma Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude |
| Calegory | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.55312 | 9° | 39.553129 |
| пеш | | | | -121.70664 | o° | -121.706640 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:50983 DS_ID:16350 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/17/2012 WS headwall has been cleared of debris and sedimentation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.31)]

FS Date: 11/28/2016 10:04:46 AM



Sedimentation cleared on WS.

| LM Start | 3.70 | Rating ** | М | Issue No. | | 69 | | |
|------------------------|--------------|----------------|------------------------|------------|------|-------------|---|--|
| LM End | 3.74 | Issue Type + | Ma | Location * | | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | | |
| Item | Vegetatio | Vegetation | | 39.5469 | 10° | 39.546333 | 0 | |
| item | | | | -121.7076 | 35 ° | -121.707518 | 0 | |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | 6_69 | | | | | |
| | Comment Code | | | | | | | |

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

| * Location | ** Rating | | + Issue Type |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.72 | Rating ** | A/W | Issue No. | | 100 | |
|----------|----------|--------------|------------|------------|------|---------------|--|
| LM End | 3.72 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.54659 | 2° | 39.546592° | |
| пеш | | | | -121.70756 | o° | -121.707560 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

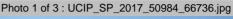
FS_ID:50984 DS_ID:16351 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Both sides of the crossing were underwater during time of inspection.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.
FIELD_STRUCT_DESC: 24-inch corrugate metal drainage pipe through

FIELD_STRUCT_DESC: 24-inch corrugate metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.80)] FS Date: 11/28/2016 10:05:20 AM

| LM Start | 3.72 | Rating ** | A/W | Issue No. | 100 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 3.72 | Issue Type + | Ma | Location * | LS |





Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_50984_66738.jpg



WS slope covered by dense vegetation.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.72 | Rating ** | A/W | Issue No. | | 100 (cont) |
|-----------------------|--------|--------------|------------------------|------------|----|---------------|
| LM End | 3.72 | Issue Type + | Ма | Location * | | LS |
| Category Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.54659 | 2° | 39.546592° |
| пеш | | | | -121.70756 | 0° | -121.707560 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:50984 DS_ID:16351 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Both sides of the crossing were underwater during time of inspection.7/14/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.

FIELD_STRUCT_DESC: 24-inch corrugate metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.80)] FS Date: 11/28/2016 10:05:20 AM

Photo 3 of 3: UCIP_SP_2017_50984_66735.jpg



WS flap gate

| LM Start | 3.73 | Rating ** | М | Issue No. | 51 | | | |
|----------|----------------------------------|--------------|-------|------------|-------|---------------|--|--|
| LM End | 3.73 | Issue Type + | En | Location * | LS | | | |
| Category | Earthen L | .evee | | GPS La | titud | le/Longitude | | |
| Category | | | Start | | End | | | |
| Item | Encroach | ncroachments | | | 65 ° | 39.546465 ° | | |
| пеш | | | | -121.70753 | 30° | -121.707530 ° | | |
| DWR ID | DWR ID DWR_MA0013_01_s _ 2016_51 | | | | | | | |
| | Comment Code | | | | | | | |

EQ : Equipment

Inspector Comment

Remove ag equipment from the toe of slope.

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.74 | Rating ** | М | Issue No. | | 101 |
|-----------------------|--------|--------------|------------------------|------------|-----|--------------|
| LM End | 3.74 | Issue Type + | Ma | Location * | | LS |
| Category Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.54631 | 7 ° | 39.546317° |
| пеш | | | | -121.70751 | 0 ° | -121.707510° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:50985 DS_ID:16365 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Both LS and WS gates buried. (DWR Sutter Yard- AFreitag)4/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried.7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over.4/18/2012 LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.82)] FS Date: 11/28/2016 10:05:45 AM

| LM Start | 3.74 | Rating ** | М | Issue No. | 101 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 3.74 | Issue Type + | Ma | Location * | LS |





Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_50985_66741.jpg



WS flap gate blocked by debris.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 3.74 | Rating ** | М | Issue No. | | 101 (cont) | |
|----------|--------|--------------|------------|------------------------|-----|--------------|--|
| LM End | 3.74 | Issue Type + | Ma | Location * | | LS | |
| Category | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.54631 | 7° | 39.546317° | |
| пеш | | | | -121.70751 | 0 ° | -121.707510° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50985 DS_ID:16365 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Both LS and WS gates buried. (DWR Sutter Yard- AFreitag)4/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried.7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over.4/18/2012 LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.82)] FS Date: 11/28/2016 10:05:45 AM

Photo 3 of 3: UCIP_SP_2017_50985_66742.jpg

LS slide gate covered with silt. Slide gate is bent.

| LM Start | 4.06 | Rating ** | М | Issue No. | | 18 |
|---------------|---------------------------|--------------|---|-----------|---------------|-------------|
| LM End | 4.13 | Issue Type + | ue Type + En Location * | | LS | |
| Earthen Levee | | | GPS Latitude/Longitude | | | |
| Category | | | Start | | | End |
| Item | Vegetatio | n | | 39.5416 | 60° | 39.540651 ° |
| пеш | | | GPS La Start 39.5416 -121.7074 | ° 80 | -121.707404 ° | |
| DWR ID | DWR_MA0013_01_s _ 2013_18 | | | | | |

V6: Landscaping

Inspector Comment

Comment Code

Photo 1 of 1: SP_2017_MA0013_300_18_20170315_00006.jpg



View of the redwood trees along the landside slope.

| * Location | ** Rating | | + Issue Type |
|----------------------------|---------------------------|----------------------------------|----------------------------------|
| LS : Land Side N/A : Not A | Applicable A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acce | eptable C: Corrected | Ob : Design & System Obsolescenc |
| CR · Crown | II · I Inaccentable | A/W · Accentable but Monitor & M | aintain En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 4.15 | Rating ** | М | Issue No. | | 68 | | | |
|-------------|----------------------------------|--------------|----------|-------------|--------|--------------|--|--|--|
| LM End | 4.26 | Issue Type + | Ma | Location * | | LS | | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | | | |
| Calegory | | | Start | | End | | | | |
| Vegetation | | | | 39.5404 | 28° | 39.538823 ° | | | |
| пеш | item | | | -121.7074 | 23 ° | -121.707449° | | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_68 | | | | | | | | |
| | | Comn | nent Cod | le | | | | | |
| V1 : Contro | ol annual g | rass and wee | ds on th | e levee slo | oes a | and | | | |
| easements | S. | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

No Photos

| LM Start | 4.35 | Rating ** | A/W | Issue No. | | 102 | | |
|-----------------------|--------|--------------|-----------------|------------------------|-----|---------------|--|--|
| LM End | 4.35 | Issue Type + | sue Type + Ma L | | | LS | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | | | End | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53751 | 6 ° | 39.537516 ° | | |
| пеш | | | | -121.70758 | 0° | -121.707580 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50988 DS_ID:16341 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Minor debris on landside inlet. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0189 for sediment and grass blocking WS and LS.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.43)] FS Date: 11/28/2016 10:46:26 AM

Photo 1 of 3: UCIP_SP_2017_50988_66752.jpg



Overview of levee crown at crossing looking upstream.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 4.35 | Rating ** | A/W | Issue No. | | 102 (cont) | | |
|----------|--------------|-----------------|------------|----------------------|------------------------|---------------|--|--|
| LM End | 4.35 | Issue Type + Ma | | Ma Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5375 ⁻ | 16° | 39.537516° | | |
| пеш | | | | -121.70758 | 80° | -121.707580 ° | | |
| DWR ID | | | | | | · | | |

Comment Code Inspector Comment

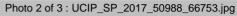
FS_ID:50988 DS_ID:16341

EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Minor debris on landside inlet. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0189 for sediment and grass blocking WS and LS.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.43)] FS Date: 11/28/2016 10:46:26 AM

| LM Start | 4.35 | Rating ** | A/W | Issue No. | 102 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 4.35 | Issue Type + | Ma | Location * | LS |





View of WS slope and toe.

Photo 3 of 3: UCIP_SP_2017_50988_66750.jpg



View of WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 4.85 | Rating ** | A/W | Issue No. | | 103 | | |
|----------|--------------|--------------|------------|------------|------------------------|-----------|---|--|
| LM End | 4.85 | Issue Type + | Ма | Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | y | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.53022 | 0° | 39.530220 | 0 | |
| пеш | | | -121.70794 | 0° | -121.707940 | 0 | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50989 DS_ID:16355 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 No signs of burrowing activity on this inspection.4/18/2012 Burrow activity near crossing, burrow holes

present on WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee 7.7 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.94)] FS Date: 11/28/2016 10:48:17 AM

| LM Start | 4.85 | Rating ** | A/W | Issue No. | 103 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 4.85 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50989_66756.jpg



Overview of levee crown at crossing looking downstream at righ bank of Cherokee Canal.

Photo 2 of 3: UCIP_SP_2017_50989_66758.jpg



Burrow activity on WS slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 4.85 | Rating ** | A/W | Issue No. | | 103 (cont) | | |
|----------|--------------|-----------------|------------|------------|------------------------|---------------|--|--|
| LM End | 4.85 | Issue Type + Ma | | Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53022 | o° | 39.530220 ° | | |
| пеш | | | | -121.70794 | o° | -121.707940 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50989 DS_ID:16355 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 No signs of burrowing activity on this inspection.4/18/2012 Burrow activity near crossing, burrow holes present on WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee 7.7 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.94)] FS Date: 11/28/2016 10:48:17 AM

Photo 3 of 3: UCIP_SP_2017_50989_66755.jpg



View of WS flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.33 | Rating ** A/W | | Issue No. | | 104 | | |
|----------|--------------|-----------------|----------------------|--------------------|------------------------|-------------|--|--|
| LM End | 5.33 | Issue Type + Ma | | pe + Ma Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | P LMA Responsibility | | | 39.523236 ° | | |
| пеш | | | -121.7076 | 50 ° | -121.707650 ° | | | |
| DWR ID | | | | | | | | |

Comment Code

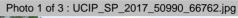
Inspector Comment

FS_ID:50990 DS_ID:16356 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged and WS flapgate was propped open by a wood block but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Minor vegetation on LS slope. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0204 for restriction view of gates. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.43)] FS Date: 11/28/2016 10:49:24 AM

| LM Start | 5.33 | Rating ** | A/W | Issue No. | 104 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 5.33 | Issue Type + | Ma | Location * | LS |





Overview of levee crown at crossing looking D/S on right bank of Cherokee Canal.

Photo 2 of 3: UCIP_SP_2017_50990_66760.jpg



WS Flap Gate

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.33 | Rating ** | A/W | Issue No. | | 104 (cont) | |
|----------|-----------------------------|--------------|----------|------------------------|-----------|-------------|--|
| LM End | 5.33 | Issue Type + | Ма | Location * | | LS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | legory | | | Start | | End | |
| Item | DWR UCIP LMA Responsibility | | 39.52323 | 6° | 39.523236 | | |
| пеш | | | | -121.70765 | o° | -121.707650 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50990 DS_ID:16356 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

FS Date: 11/28/2016 10:49:24 AM

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged and WS flapgate was propped open by a wood block but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Minor vegetation on LS slope. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0204 for restriction view of gates. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.43)]

Photo 3 of 3: UCIP_SP_2017_50990_66763.jpg



WS view of outlet cleared of vegetation.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.38 | Rating ** | М | Issue No. | | 105 | |
|----------|-----------------------------|--------------|----|------------------------|-----|---------------|--|
| LM End | 5.38 | Issue Type + | Ма | Location * | | LS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | y | | | Start | | End | |
| Item | DWR UCIP LMA Responsibility | | | 39.52256 | 66° | 39.522566° | |
| пеш | | | | -121.70756 | 60° | -121.707560 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50992 DS_ID:16357 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS flap gate closed but blocked from opening by sediment. (DWR Sutter Yard- AFreitag)4/28/2016 WS flap gate blocked from opening by sediment.7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes

due to dense vegetation. Need photos of cleared slopes.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls an both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 5.48)] FS Date: 11/28/2016 10:50:24 AM

| LM Start | 5.38 | Rating ** | М | Issue No. | 105 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 5.38 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_50992_66764.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP SP 2017 50992 66765.jpg



View of WS slope and channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.38 | Rating ** | М | Issue No. | | 105 (cont) | |
|----------|--------|-----------------|------------|------------------------|-----|---------------|--|
| LM End | 5.38 | Issue Type + Ma | | Location * | | LS | |
| Category | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5225 | 66° | 39.522566 ° | |
| пеш | | | | -121.7075 | 60° | -121.707560 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:50992 DS_ID:16357 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS flap gate closed but blocked from opening by sediment. (DWR Sutter Yard- AFreitag)4/28/2016 WS flap gate blocked from opening by sediment.7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls an both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 5.48)] FS Date: 11/28/2016 10:50:24 AM

Photo 3 of 3: UCIP_SP_2017_50992_66768.jpg



View of WS flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.63 | Rating ** | М | Issue No. | | 106 | |
|----------|--------------|--------------|-----------|------------|------------------------|---------------|--|
| LM End | 5.63 | Issue Type + | Ма | Location * | | LS | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.51921 | 2° | 39.519212 ° | |
| пеш | | | | -121.70903 | o° | -121.709030 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51018 DS_ID:16359 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS still completely buried. (DWR Sutter Yard- AFreitag)4/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok.7/13/2015 Both the LS screw gate and WS flapgate are completely buried.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS headwall and flapgate are fully covered in debris and not visible. Need to clear.4/18/2012 High sedimentation build up at WS and LS headwall. Limited inspection due to dense vegetation on WS and LS slope. Need photo of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13D_2011_p_0210 for WS gate submerged.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.73)]

FS Date: 11/30/2016 7:01:02 AM

| LM Start | 5.63 | Rating ** | М | Issue No. | 106 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 5.63 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51018_66793.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP SP 2017 51018 66794.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.63 | Rating ** | М | Issue No. | | 106 (cont) |
|-----------------------|--------|-----------------|-----------|------------|-----|---------------|
| LM End | 5.63 | Issue Type + Ma | | Location * | | LS |
| Category Supplemental | | | | GPS Lat | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.51921 | 2° | 39.519212 ° |
| пеш | | | | -121.70903 | ° | -121.709030 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51018 DS_ID:16359 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS still completely buried. (DWR Sutter Yard- AFreitag)4/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok.7/13/2015 Both the LS screw gate and WS flapgate are completely buried.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS headwall and flapgate are fully covered in debris and not visible. Need to clear.4/18/2012 High sedimentation build up at WS and LS headwall. Limited inspection due to dense vegetation on WS and LS slope. Need photo of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13D_2011_p_0210 for WS gate submerged.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 5.73)] FS Date: 11/30/2016 7:01:02 AM

Photo 3 of 3: UCIP_SP_2017_51018_66791.jpg



View of WS flap gate buried.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.87 | Rating ** | A/W | Issue No. | | 107 | |
|-----------------------|--------|--------------|-----------|------------|-------------|-------------|---|
| LM End | 5.87 | Issue Type + | Ma | Location * | | LS | |
| Category Supplemental | | | GPS La | atitud | e/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5160 | 59° | 39.516059 | 0 |
| пеш | | | | -121.7108 | 10° | -121.710810 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51019 DS_ID:16360 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Same as last inspection.4/18/2012 Burrow

activity near crossing; burrow holes present on LS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.97)]

FS Date: 11/30/2016 7:04:27 AM

| LM Start | 5.87 | Rating ** | A/W | Issue No. | 107 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 5.87 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51019_66800.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51019_66801.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 5.87 | Rating ** | A/W | Issue No. | | 107 (cont) | | |
|----------|--------------|-----------------|-----------|------------|------------------------|--------------|--|--|
| LM End | 5.87 | Issue Type + Ma | | Location * | | LS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.51605 | 9° | 39.516059° | | |
| пеш | | | | -121.71081 | o° | -121.710810° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51019 DS_ID:16360 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last

inspection.7/15/2013 Same as last inspection.4/18/2012 Burrow

activity near crossing; burrow holes present on LS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.97)]

FS Date: 11/30/2016 7:04:27 AM



Flap gate WS

| LM Start | 6.17 | Rating ** | М | Issue No. | | 67 | | |
|------------------------|----------------------------------|--------------|------------------------|------------|-----------------------|------------|--|--|
| LM End | 6.17 | Issue Type + | En | Location * | | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | | |
| Item | Encroachments | | | 39.5121 | 57° | 39.512157° | | |
| Item | | | | -121.7131 | 121.713171 ° -121.713 | | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_67 | | | | | | | |
| | | Comm | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

No Photos

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.23 | Rating ** | М | Issue No. | | 108 |
|----------|----------|--------------|-----------|-------------|-----|--------------|
| LM End | 6.23 | Issue Type + | Ма | Location * | LS | |
| Category | Suppleme | ental | | GPS Lati | tud | e/Longitude |
| Calegory | | | Start | | End | |
| Item | DWR UC | P LMA Respo | nsibility | 39.51133 | 7 ° | 39.511337° |
| пеш | | | | -121.713620 | ° | -121.713620° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51020 DS_ID:16361 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 LS screwgate is buried and non-operational. (DWR Sutter Yard- AFreitag)4/28/2016 LS screwgate is still completely buried. 7/13/2015 LS screw gate is completely buried.5/21/2014 Same as last inspection.7/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried.12/2/2013 Same as last inspection.4/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.34)]

FS Date: 11/30/2016 7:08:13 AM

| LM Start | 6.23 | Rating ** | М | Issue No. | 108 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 6.23 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51020_66808.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51020_66806.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.23 | Rating ** | М | Issue No. | | 108 (cont) | |
|----------|----------|--------------|------------|------------|------|--------------|--|
| LM End | 6.23 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude | |
| Calegory | | | | | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.51133 | 7 ° | 39.511337° | |
| пеш | | | | -121.71362 | o° | -121.713620° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51020 DS_ID:16361 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 LS screwgate is buried and non-operational. (DWR Sutter Yard- AFreitag)4/28/2016 LS screwgate is still completely buried. 7/13/2015 LS screw gate is completely buried.5/21/2014 Same as last inspection.7/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried.12/2/2013 Same as last inspection.4/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.34)]

FS Date: 11/30/2016 7:08:13 AM



View of WS flap gate.

| LM Start | 6.41 | Rating ** | М | Issue No. | | 3 | | |
|------------------------|---------------|----------------|----------|---------------|--------|--------------|--|--|
| LM End | 6.99 | Issue Type + | En | Location * | | LS | | |
| Category Earthen Levee | | | | GPS La | atitud | e/Longitude | | |
| Category | Calegory | | | Start | | End | | |
| Item | Encroachments | | | 39.508928° | | 39.501438° | | |
| пеш | | | | -121.714842 ° | | -121.719715° | | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 2_3 | | | · | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| | | | | | | | | |

Photo 1 of 1: SP_2017_MA0013_300_3_20170315_00002.jpg



View of the agricultural ditch along the toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.45 | Rating ** | U | Issue No. | | 109 |
|----------|----------|--------------|-----------|------------|-----|--------------|
| LM End | 6.45 | Issue Type + | Ма | Location * | LS | |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.50830 | 9° | 39.508309° |
| пеш | | | | -121.71510 | ° | -121.715100° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51021 DS_ID:16362 EP_NO: 5200B Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Hole/erosion still present behind the LS flashboards. (DWR Sutter Yard- AFreitag)4/28/2016 Hole still present behind the LS flashboards. Rest of the crossing appeared in good condition. (DWR Sutter Yard - afreitag)7/13/2015 Hole still present behind the LS flashboards. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (DWR Sutter Yard - afreitag)4/18/2012 Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends (Permit No. 5200B - 1965, Richvale Irrigation District) (Additional Related Permit(s): Permit No. 5200 and 5200A) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.56)]

FS Date: 11/30/2016 7:09:30 AM

| LM Start | 6.45 | Rating ** | U | Issue No. | 109 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 6.45 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51021_66814.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51021_66813.jpg



View of WS slope and toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.45 | Rating ** | U | Issue No. | 109 (cont | | | |
|----------|-----------------------------|--------------|----|------------|------------------------|---------------|--|--|
| LM End | 6.45 | Issue Type + | Ма | Location * | LS | | | |
| Catagony | Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | | |
| Item | DWR UCIP LMA Responsibility | | | 39.50830 | 9° | 39.508309 ° | | |
| пеш | | | | -121.71510 | o° | -121.715100 ° | | |
| DWR ID | | | | | | | | |

Inspector Comment

Comment Code

FS_ID:51021 DS_ID:16362 EP_NO: 5200B Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Hole/erosion still present behind the LS flashboards. (DWR Sutter Yard- AFreitag)4/28/2016 Hole still present behind the LS flashboards. Rest of the crossing appeared in good condition. (DWR Sutter Yard - afreitag)7/13/2015 Hole still present behind the LS flashboards. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. (DWR Sutter Yard afreitag)4/18/2012 Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. (DWR UCIP omagana)

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends (Permit No. 5200B - 1965, Richvale Irrigation District) (Additional Related Permit(s): Permit No. 5200 and 5200A) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 519, June 1962 (HLM 6.56)]

FS Date: 11/30/2016 7:09:30 AM



WS flap gate.

| LM Start | 6.53 | Rating ** | М | Issue No. | | 2 | | |
|------------------------|---------------------------------|--------------|----|------------------------|----|---------------|--|--|
| LM End | 6.53 | Issue Type + | En | Location * | LS | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Encroachments | | | 39.507337° | | 39.507337 ° | | |
| item | | | | -121.715693 ° | | -121.715693 ° | | |
| DWR ID | DWR ID DWR_MA0013_01_s _ 2012_2 | | | | | | | |
| Comment Code | | | | | | | | |
| MA · Material | | | | | | | | |

MA : Material

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_300_2_20170315_00001.jpg

View of a concrete block along the toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.99 | Rating ** | М | Issue No. | | 110 | | |
|----------|-----------------------------|--------------|-----------|------------|------------------------|-----------|---|--|
| LM End | 6.99 | Issue Type + | Ma | Location * | LS | | | |
| Catagony | Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | Start | | | |
| Item | DWR UCIP LMA Responsibility | | | 39.5014 | 79° | 39.501479 | 0 | |
| item | | | -121.7197 | 10° | -121.719710 | 0 | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51028 DS_ID:16329 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Needs a new screw gate installed on the LS. (DWR Sutter Yard- AFreitag)4/28/2016 LS slide gate is still bent. Everyhting else with the crossing appeared ok.7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged.4/18/2012 LMA's inspection sheet of 2011 indicates settlement and visible corrosion.

Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.10)]

FS Date: 11/30/2016 7:16:33 AM

| LM Start | 6.99 | Rating ** | М | Issue No. | 110 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 6.99 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51028_66833.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_51028_66832.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 6.99 | Rating ** | М | Issue No. | 110 (cont | | |
|----------|-----------------------|-----------------------------|----|------------|------------------------|--------------|--|
| LM End | 6.99 | Issue Type + | Ма | Location * | LS | | |
| Catagony | Category Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End | |
| Item | DWR UC | DWR UCIP LMA Responsibility | | | 9° | 39.501479° | |
| item | | | | -121.71971 | ° | -121.719710° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS ID:51028 DS_ID:16329 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 Needs a new screw gate installed on the LS. (DWR Sutter Yard- AFreitag)4/28/2016 LS slide gate is still bent. Everyhting else with the crossing appeared ok.7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged.4/18/2012 LMA's inspection sheet of 2011 indicates settlement and visible corrosion.

Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos

of cleared slopes for this crossing.

FIELD STRUCT DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.10)]

FS Date: 11/30/2016 7:16:33 AM

Photo 3 of 3: UCIP_SP_2017_51028_66837.jpg



WS Flap Gate

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.22 | Rating ** | A/W | Issue No. | | 111 |
|----------|----------|--------------|------------------------|-----------|-------------|---------------|
| LM End | 7.22 | Issue Type + | ype + Ma Location * | | | LS |
| Category | Suppleme | ental | GPS Latitude/Longitude | | | |
| Category | | | | Start | | End |
| Item | DWR UC | onsibility | 39.4988 | 45 ° | 39.498845 ° | |
| пеш | | | | -121.7224 | 40 ° | -121.722440 ° |
| DWR ID | | | | | | |

Inspector Comment

Comment Code

FS_ID:51029 DS_ID:16354 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 SCrew gate stem bent but gate is still operational. (DWR Sutter Yard- AFreitag)4/28/2106 Tested positive closure device the bent stem on the slide gate did not seem to affect its functions. Gate operable.7/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent.4/18/2012 LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.34)] FS Date: 11/30/2016 7:28:38 AM

| LM Start | 7.22 | Rating ** | A/W | Issue No. | 111 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 7.22 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3 : UCIP_SP_2017_51029_66844.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_51029_66845.jpg



View of WS slope and toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.22 | Rating ** | A/W | Issue No. | 111 (cont) | |
|----------|----------|--------------|-----------|-------------|------------|---------------|
| LM End | 7.22 | Issue Type + | Ма | Location * | | LS |
| Category | Suppleme | GPS Lat | itud | e/Longitude | | |
| Calegory | | | | | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.49884 | 5° | 39.498845° |
| пеш | | | | -121.72244 | o° | -121.722440 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51029 DS_ID:16354 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 SCrew gate stem bent but gate is still operational. (DWR Sutter Yard- AFreitag)4/28/2106 Tested positive closure device the bent stem on the slide gate did not seem to affect its functions. Gate operable.7/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent.4/18/2012 LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.34)] FS Date: 11/30/2016 7:28:38 AM

Photo 3 of 3: UCIP_SP_2017_51029_66842.jpg



WS Flap Gate

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.46 | Rating ** | A/W | Issue No. | | 112 |
|----------|----------|--------------|-----------|-------------|----|--------------|
| LM End | 7.46 | Issue Type + | Ма | Location * | | LS |
| Category | Suppleme | GPS Lat | itud | e/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.49614 | 6° | 39.496146° |
| пеш | | | | -121.72516 | 0° | -121.725160° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51030 DS_ID:16352 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.58)] FS Date: 11/30/2016 7:32:13 AM

| LM Start | 7.46 | Rating ** | A/W | Issue No. | 112 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 7.46 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51030_66853.jpg



View of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP SP 2017 51030 66851.jpg



WS view of slope and channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.46 | Rating ** | A/W | Issue No. | | 112 (cont) |
|----------|----------|-----------------|-----------|-------------|----|--------------|
| LM End | 7.46 | Issue Type + Ma | | Location * | | LS |
| Category | Suppleme | GPS Lat | itud | e/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.49614 | 6° | 39.496146° |
| пеш | | | | -121.72516 | o° | -121.725160° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51030 DS_ID:16352 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some.5/21/2014 Same as last inspection.12/2/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.58)] FS Date: 11/30/2016 7:32:13 AM



View of WS flap gate. Dense vegetation on WS slope.

| LM Start | 7.62 | Rating ** | М | Issue No. | 66 | | | |
|----------------------------------|----------|--------------|----|------------------------|-----|-------------|---|--|
| LM End | 7.62 | Issue Type + | Ма | Location * | WS | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Category | Category | | | | | End | | |
| Item | Encroach | ments | | 39.49404 | 5 ° | 39.494045 | 0 | |
| Item | | | | -121.72642 | 0° | -121.726420 | 0 | |
| DWR ID DWR_MA0013_01_f _ 2016_66 | | | | | | | | |
| Comment Code | | | | | | | | |

DE : Debris

Inspector Comment

Remove the tires from the waterside slope.

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.64 | Rating ** | A/W | Issue No. | | 113 |
|----------|-------------------------------------|--------------|------------|-------------|--------------|--------------|
| LM End | 7.64 | Issue Type + | Ma | Location * | WS | |
| Category | Supplemental GPS Latitude/Longitude | | | | le/Longitude | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.49375 | 3° | 39.493756° |
| пеш | | | | -121.726570 | ° | -121.726570° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51033 DS_ID:16320 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 The bottom of the entire pipe has about 8inch of sediment in it. Sediment is preventing the screw gate from fully closing. WS flap gate seems to be in good condition.5/21/2014 Same as last inspection.12/3/2013 Same as

last inspection.7/15/2013 Same as last inspection.12/3/2013 Same

FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in corrugated metal pipe riser on the WS slope.

Concrete "U" headwalls on both ends. Spillway grouted for 35 feet. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.76)]

FS Date: 11/30/2016 7:43:17 AM

| LM Start | 7.64 | Rating ** | A/W | Issue No. | 113 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 7.64 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51033_66867.jpg



Overview of levee crown at crossing (past gate) looking D/S.

Photo 2 of 3: UCIP_SP_2017_51033_66865.jpg



View of WS slope, corrugated metal riser with slide gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 7.64 | Rating ** | A/W | Issue No. | | 113 (cont) |
|-------------------------|--------|--------------|------------|------------|------|-------------|
| LM End | 7.64 | Issue Type + | Ma | Location * | | WS |
| Category Supplemental G | | | | GPS Lat | itud | e/Longitude |
| Calegory | gory | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.49375 | 6° | 39.493756 |
| пеш | | | | -121.72657 | o° | -121.726570 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51033 DS_ID:16320 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 The bottom of the entire pipe has about 8inch of sediment in it. Sediment is preventing the screw gate from fully closing. WS flap gate seems to be in good

condition.5/21/2014 Same as last inspection.12/3/2013 Same as

last inspection.7/15/2013 Same as last inspection.

FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in corrugated metal pipe riser on the WS slope. Concrete "U" headwalls on both ends. Spillway grouted for 35 feet. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 7.76)]

FS Date: 11/30/2016 7:43:17 AM



| * Location | ** Rating | | + Issue Type |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS : Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR · Crown | II · I Inaccentable | A/W · Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.00 | Rating ** | A/W | Issue No. | | 114 | | | |
|----------|--------------|--------------|------------|-------------------------------------|-------|---------------|--|--|--------------|
| LM End | 8.00 | Issue Type + | Ma | Location * | WS | | | | |
| Category | Supplemental | | | Supplemental GPS Latitude/Longitude | | | | | le/Longitude |
| Calegory | Category | | | | Start | | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.48906 | 1° | 39.489061 ° | | | |
| пеш | | | | -121.72943 | o° | -121.729430 ° | | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51034 DS_ID:16321 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears to be in good condition. 5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Sediment build up against flashboards. Flashboards are in use on landside of levee.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.12)]

FS Date: 11/30/2016 7:47:54 AM

| LM Start | 8.00 | Rating ** | A/W | Issue No. | 114 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 8.00 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51034_66872.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_51034_66873.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.00 | Rating ** | A/W | Issue No. | | 114 (cont) | |
|----------|----------|--------------|------------|------------|-------------|--------------|---|
| LM End | 8.00 | Issue Type + | Ma | Location * | WS | | |
| Category | Suppleme | ental | | GPS Lat | ituc | le/Longitude | |
| Calegory | Category | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.48906 | 1° | 39.489061 | 0 |
| Item | | | -121.72943 | 0 ° | -121.729430 | 0 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51034 DS_ID:16321 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears to be in good condition. 5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Sediment build up against flashboards. Flashboards are in use on landside of levee.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM

8.12)]

FS Date: 11/30/2016 7:47:54 AM



WS Flap gate

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.27 | Rating ** | М | Issue No. | | 115 | |
|----------|--------------|--------------|-------------|------------------------|---------------|-------------|--|
| LM End | 8.27 | Issue Type + | Ma | Location * | WS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | Category | | | | Start | | |
| ltom | DWR UC | IP LMA Respo | onsibility | 39.48543 | 2° | 39.485432 ° | |
| Item | | | -121.731590 | ° | -121.731590 ° | | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51035 DS_ID:16322 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS falp gate is closed but is blocked from opening by sediment. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes are cleared of vegetation and are in good condition. WS flapgate is blocked from opening fully by sediment.4/18/2012 Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.40)]

FS Date: 11/30/2016 7:50:53 AM

| LM Start | 8.27 | Rating ** | М | Issue No. | 115 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 8.27 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51035_66876.jpg



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_51035_66874.jpg



View of WS slope and toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.27 | Rating ** | М | Issue No. | | 115 (cont) |
|----------|----------|-----------------|------------|------------|-------|---------------|
| LM End | 8.27 | Issue Type + Ma | | Location * | | WS |
| Category | Suppleme | ental | | GPS La | tituc | le/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.48543 | 32 ° | 39.485432 ° |
| пеш | | | | -121.73159 | 90° | -121.731590 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51035 DS_ID:16322 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 WS falp gate is closed but is blocked from opening by sediment. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes are cleared of vegetation and are in good condition. WS flapgate is blocked from opening fully by sediment.4/18/2012 Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.40)]

FS Date: 11/30/2016 7:50:53 AM

Photo 3 of 3: UCIP_SP_2017_51035_66877.jpg

View of WS flap gate and headwall.

| LM Start | 8.81 | Rating ** | M | Issue No. | | 49 | | |
|----------------------------|--|----------------|------|------------------------|----|--------------|--|--|
| LM End | 8.81 | Issue Type + | Ma | Location * | LS | | | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| ltem Erosion / Bank Caving | | 39.478648° | | 39.478648 ° | | | | |
| Item | | | | -121.736477 ° | | -121.736477° | | |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | 6_49 | | | | | |
| | Comment Code | | | | | | | |
| E2 : Sched | E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | | |

Inspector Comment

Photo 1 of 1 : SP_2017_MA0013_300_49_20170315_00009.jpg



View of the erosion site along the landside toe.

| Location | |
|-----------------------------------|---------------------|
| LS: Land Side | N/A: Not Applicable |
| LS : Land Side WS : Water Side | |
| CR · Crown | |

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.82 | Rating ** | U | Issue No. | | 116 |
|----------|----------|----------------|-------|------------|-------|---------------|
| LM End | 8.82 | Issue Type + | En | Location * | | LS |
| Category | Suppleme | ental | | GPS La | tituc | le/Longitude |
| Category | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.47857 | 73 ° | 39.478573 ° |
| пеш | | | | -121.7365 | 50 ° | -121.736550 ° |
| DWR ID | | | | | | |

Inspector Comment

Comment Code

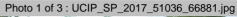
FS_ID:51036 DS_ID:16323 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 LS erosion is still a major problem here. (DWR Sutter Yard- AFreitag)4/28/2016 Erosion still present at the LS headwall. (DWR Sutter Yard - afreitag)7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/18/2012 Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: [Richvale Irrigation Canal Siphon] 60-inch by 84-inch (5-foot by 7 foot) concrete irrigation conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on the waterside (WS). Concrete headwall on the landside (LS). 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.95)]

FS Date: 11/30/2016 7:54:23 AM

| LM Start | 8.82 | Rating ** | U | Issue No. | 116 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 8.82 | Issue Type + | En | Location * | LS |





Catwalk and screw gate located on WS.

Photo 2 of 3: UCIP_SP_2017_51036_66884.jpg



Catwalk & gate located on WS. No daylight point on WS.

Location Rating Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.82 | Rating ** | U | Issue No. | | 116 (cont) | |
|----------|--------------|----------------|----|------------------------|----|------------|--|
| LM End | 8.82 | Issue Type + | En | Location * | | LS | |
| Catagony | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | Category | | | Start | | End | |
| Itom | DWR UC | IP Field Study | | 39.478573 | 3° | 39.478573 | |
| Item | | -121.736550 | ° | -121.736550 | | | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51036 DS_ID:16323 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 LS erosion is still a major problem here. (DWR Sutter Yard- AFreitag)4/28/2016 Erosion still present at the LS headwall. (DWR Sutter Yard - afreitag)7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. (DWR Sutter Yard - afreitag)5/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/15/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/18/2012 Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: [Richvale Irrigation Canal Siphon] 60-inch by 84-inch (5-foot by 7 foot) concrete irrigation conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on the waterside (WS). Concrete headwall on the landside (LS). 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.95)]

FS Date: 11/30/2016 7:54:23 AM

Photo 3 of 3: UCIP_SP_2017_51036_66882.jpg



View of LS structure. Erosion present behind headwall.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.84 | Rating ** | A/W | Issue No. | | 117 |
|----------|----------|--------------|-----------|------------|------|---------------|
| LM End | 8.84 | Issue Type + | Ма | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | ituc | le/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.47828 | 1° | 39.478281 ° |
| пеш | | | | -121.73678 | o° | -121.736780 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51039 DS_ID:16325 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 LS slope has been sprayed and cleared of vegetation and is in good condition.4/18/2012 Limited inspection on LS slope due to dense vegetation. Need photo of cleared vegetation from slopes and WS headwall. Minor debris scattered on WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate on the WS end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.98)]

FS Date: 11/30/2016 8:02:47 AM

| LM Start | 8.84 | Rating ** | A/W | Issue No. | 117 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 8.84 | Issue Type + | Ma | Location * | LS |



Overview of levee crown at crossing looking D/S.

Photo 2 of 3: UCIP_SP_2017_51039_66897.jpg



View of WS slope with 2 slide gates.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.84 | Rating ** | A/W | Issue No. | | 117 (cont) |
|-------------------------------------|--------|--------------|------------|--------------|---------------|-------------|
| LM End | 8.84 | Issue Type + | Ma | Location * | | LS |
| Category Supplemental GPS Latitude/ | | | | le/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.47828 | 1° | 39.478281 ° |
| пеш | | | -121.73678 | ° o | -121.736780 ° | |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51039 DS_ID:16325 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 LS slope has been sprayed and cleared of vegetation and is in good condition.4/18/2012 Limited inspection on LS slope due to dense vegetation. Need photo of cleared vegetation from slopes and WS headwall. Minor debris scattered on WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate on the WS end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 8.98)]

FS Date: 11/30/2016 8:02:47 AM



View of slide gate on WS. Debris blocking gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.89 | Rating ** | М | Issue No. | | 118 | | |
|-----------------------|--------|----------------|------------|------------------------|--------------|------------|--|--|
| LM End | 8.89 | Issue Type + | En | Location * | | LS | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.47758 | 8° | 39.477588° | | |
| пеш | | | -121.73704 | 0 ° | -121.737040° | | | |
| DWR ID | | | | | | · | | |

Comment Code

Inspector Comment

FS_ID:51041 DS_ID:16828 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 SOome erosion still present near the LS

structure. Does not affect the levee yet. (DWR Sutter Yard-AFreitag)4/28/2016 Erosion happening around the concrete structure

on LS. Its not yet affecting the levee but will keep

monitoring.7/13/2015 Crossing appears in good condition. No

noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as

last inspection.4/18/2012 Crossing is not visible on WS.

Issue Type +

FIELD_STRUCT_DESC: 72-inch irrigation pipe through the levee located 14.2 feet below the crown. Appurtances include concrete pipe siphon, screw gate, and distribution box visible on the landside (LS). No appurtenances found on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June

1962 (HLM 9.02)] FS Date: 11/30/2016 9:22:50 AM

8.89

LM End

LM Start 8.89 Rating ** M Issue No. 118 (cont)

En

Location

LS

Photo 1 of 3: UCIP_SP_2017_51041_66908.jpg



Overview picture looking south

Photo 2 of 3: UCIP_SP_2017_51041_66907.jpg



Headwall at LS distribution box

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.89 | Rating ** | М | Issue No. | | 118 (cont) | | |
|----------|--------|----------------|----|------------------------|----|---------------|--|--|
| LM End | 8.89 | Issue Type + | En | Location * | | LS | | |
| Category | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.477588 | 3° | 39.477588° | | |
| пеш | | | | -121.737040 | ° | -121.737040 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51041 DS_ID:16828 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/16/2016 SOome erosion still present near the LS structure. Does not affect the levee vet. (DWR Sutter Yard-

AFreitag)4/28/2016 Erosion happening around the concrete structure

on LS. Its not yet affecting the levee but will keep

monitoring.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last

inspection.12/3/2013 Same as last inspection.7/15/2013 Same as

last inspection.4/18/2012 Crossing is not visible on WS.

FIELD_STRUCT_DESC: 72-inch irrigation pipe through the levee located 14.2 feet below the crown. Appurtances include concrete pipe siphon, screw gate, and distribution box visible on the landside (LS). No appurtenances found on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June

1962 (HLM 9.02)]

FS Date: 11/30/2016 9:22:50 AM

Photo 3 of 3: UCIP_SP_2017_51041_76257.jpg



Enter photo 3 description or comment here.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.90 | Rating ** | М | Issue No. | | 119 |
|----------|--------|------------------------|------------|------------|---------------|------------|
| LM End | 8.90 | Issue Type + | En | Location * | | LS |
| Category | ental | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | | 39.47753 | 0 ° | 39.477530° |
| пеш | | | -121.73706 | 0 ° | -121.737060 ° | |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51042 DS_ID:16328 EP_NO: 1234A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/16/2016 WS marker is knocked over and laying on the ground. (DWR Sutter Yard- AFreitag)4/28/2016 Marker missing on WS.7/13/2015 Crossing appears in good condition. No noticeable issues to report.Need to contact owner to replace marker.7/15/2013 Same as last inspection.12/3/2013 Same as last inspection.5/21/2014 Same as last inspection.

FIELD_STRUCT_DESC: Underground telephone cable through the levee at an unknown depth below the crown. (Permit No. 1234, 1234A, 1947 - Pacific Telephone and Telegraph Company [PT&T]) [Additional

Reference(s): DWR Levee Log, 1993] FS Date: 11/30/2016 9:26:42 AM



Underground telephone cable marker located on WS.

| LM Start | 8.92 | Rating ** | М | Issue No. | | 65 | | |
|------------------------|---------------|----------------|----|------------------------|------|---------------|--|--|
| LM End | 9.33 | Issue Type + | En | Location * | | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| | | | | Start | | End | | |
| Item | Encroachments | | | 39.4772 | 45 ° | 39.471975 ° | | |
| item | | | | -121.7372 | 53 ° | -121.740795 ° | | |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | | | | | | |
| Comment Code | | | | | | | | |

FE: Fence

Inspector Comment

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.95 | Rating ** | A/W | Issue No. | | 120 | | | |
|----------|--------------|--------------|-----------|------------|------------------------|--------------|--|--|--|
| LM End | 8.95 | Issue Type + | Ма | Location * | | LS | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.47683 | 9° | 39.476839° | | | |
| пеш | | | | -121.73754 | o° | -121.737540° | | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51043 DS_ID:16317 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS inlet has minor vegetation still. WS appears in good condition.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID#

USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 9.09)]

FS Date: 11/30/2016 9:28:48 AM

| LM Start | 8.95 | Rating ** | A/W | Issue No. | 120 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 8.95 | Issue Type + | Ma | Location * | LS |





Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51043_66911.jpg



View of WS slope and toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 8.95 | Rating ** | A/W | Issue No. | | 120 (cont) | | | |
|----------|--------------|--------------|------------|------------|------------------------|-------------|---|--|--|
| LM End | 8.95 | Issue Type + | Ma | Location * | | LS | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.4768 | 39° | 39.476839 | 0 | | |
| пеш | | | | -121.7375 | 40 ° | -121.737540 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51043 DS_ID:16317 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 LS inlet has minor vegetation still. WS appears in good condition.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID#

USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 9.09)] FS Date: 11/30/2016 9:28:48 AM

Photo 3 of 3: UCIP_SP_2017_51043_66912.jpg



View of LS slope and toe.

| LM Start | 9.60 | Rating ** | Α | Issue No. | | 88 |
|----------|-----------|----------------|-------|-------------|------|---------------|
| LM End | 9.60 | Issue Type + | Ma | Location * | | LS |
| Category | evee | GPS La | titud | e/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Vegetatio | n | | 39.46853 | 32 ° | 39.468532 ° |
| пеш | | | | -121.74304 | 45 ° | -121.743045 ° |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 7_88 | | | |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

There are native grasses on both slopes.

Photo 1 of 1: SP_2017_MA0013_300_88_20170508_00144.jpg



View of native grasses on both slopes.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 9.70 | Rating ** | М | Issue No. | | 5 | | | | |
|-------------------|---------------------------------|----------------|----------|-------------|-----------------|-------------|--|--|--|--|
| LM End | 9.72 | Issue Type + | Ma | Location * | | LS | | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | | | |
| Calegory | | | | Start | | End | | | | |
| Trim / Thin Trees | | | | 39.4671 | 70° | 39.466860 ° | | | | |
| пеш | | | | -121.7438 | 3887° -121.7441 | | | | | |
| DWR ID | DWR ID DWR_MA0013_01_s _ 2012_5 | | | | | | | | | |
| | | Comn | nent Cod | le | | | | | | |
| T1: Trim t | rees to at l | east five feet | above g | round level | | | | | | |
| | | | _ | | | | | | | |
| | | Inspecto | or Comm | nent | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



View of the overgrown trees along the landside slope and toe.

| LM Start | 9.73 | Rating ** | М | Issue No. | | 10 | |
|----------|---------------------------|------------------------|-----------|------------|---------------|-------------|--|
| LM End | 9.75 | Issue Type + | En | Location * | | LS | |
| Category | evee | GPS Latitude/Longitude | | | | | |
| Calegory | | | Start | | End | | |
| Item | Encroach | ments | | 39.4667 | 32° | 39.466478 ° | |
| item | | | -121.7441 | 80° | -121.744338 ° | | |
| DWR ID | DWR_MA0013_01_f _ 2013_10 | | | | | | |

Comment Code

MA : Material

Inspector Comment

Move the trailer and materials outside the 10 foot easement.



View of a trailer and material along the landside toe.

| LM Start | 9.75 | Rating ** | М | Issue No. | | 64 | |
|---------------|-------------------|----------------|----------|--------------|-------|--------------|---|
| LM End | 9.75 | Issue Type + | Ma | Location * | LS | | |
| Earthen Levee | | | | GPS La | titud | de/Longitude | |
| Category | | | | Start | | End | |
| Item | Trim / Thin Trees | | | 39.46647 | 78° | 39.466478 | 0 |
| пеш | | | | -121.74433 | 38° | -121.744338 | 0 |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | 6_64 | | | | |
| | | Comn | nent Cod | le | | | |
| T1 : Trim t | rees to at I | east five feet | above g | round level. | | | |
| | | | | | | | |

Inspector Comment

No Photos

| 1 | * Location | ** Rating | | + Issue Type |
|---|-----------------------------------|--------------------------|---|-----------------------------------|
| | LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| | WS : Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| | CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement |

MA0013

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 9.90 | Rating ** | М | Issue No. | | 63 | | | |
|------------|----------------------------------|--------------|----------|------------------------|--------|-------------|--|--|--|
| LM End | 9.90 | Issue Type + | En | Location * | | LS | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | Encroach | ments | | 39.4645 | 27° | 39.464527 ° | | | |
| пеш | | | | -121.745568° -121.7455 | | | | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_63 | | | | | | | | |
| | | Comn | nent Cod | le | | | | | |
| FE : Fence | 9 | | | | | | | | |
| | | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

No Photos

| LM Start | 9.96 | Rating ** | М | Issue No. | | 17 | |
|--------------------------|---------------------------|--------------|-----------|---------------|--------|-------------|--|
| LM End | 10.21 | Issue Type + | Ма | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | n | | 39.4638 | 12° | 39.460569 | |
| пеш | | | | -121.746113 ° | | -121.748210 | |
| DWR ID | DWR_MA0013_01_f _ 2016_17 | | | | | | |
| | | Comn | nent Cod | le | | | |
| V1 : Contro easements | | rass and wee | ds on the | e levee slo | pes a | and | |
| | | Inspecto | or Comm | ent | | | |
| Dense tulie | es on the la | andside toe. | | | | | |

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 11.03 | Rating ** | A/W | Issue No. | | 121 | |
|----------|----------|--------------|------------|------------|------|---------------|--|
| LM End | 11.03 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.44988 | 6° | 39.449886 ° | |
| item | | | | -121.75505 | o° | -121.755050 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51048 DS_ID:16332 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.

FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends and weir in channel. Crossing is used as an irrigation turnout. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 11.21)]

FS Date: 11/30/2016 9:41:26 AM

| LM Start | 11.03 | Rating ** | A/W | Issue No. | 121 (cont) |
|----------|-------|--------------|-----|------------|------------|
| LM End | 11.03 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51048_66926.jpg



View of WS corrugated metal riser and concrete wall.

Photo 2 of 3: UCIP_SP_2017_51048_66925.jpg



Corrugated metal riser with owner information.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 11.03 Rating ** A/W | | Issue No. | | 121 (cont) | |
|----------|-----------------------------|------------------------|-----------|------------|------------|---------------|
| LM End | 11.03 | Issue Type + | Ма | Location * | | LS |
| Category | ental | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | DWR UCIP LMA Responsibility | | | 39.44988 | 6° | 39.449886 ° |
| item | | | | -121.75505 | 0 ° | -121.755050 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51048 DS_ID:16332 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.

FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends and weir in channel. Crossing is used as an irrigation turnout. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 11.21)]

FS Date: 11/30/2016 9:41:26 AM



Trash rack on WS headwall.

| LM Start | 11.58 | Rating ** | М | Issue No. | | 4 | |
|----------------------------|--------------------------|--------------|---------|------------|-----------|-------------|---|
| LM End | 11.59 | Issue Type + | Ma | Location * | WS | | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude | |
| | | | | Start | | End | |
| 2015 USACE Erosion Survey, | | | 39.4428 | 21 ° | 39.442738 | ٥ | |
| Item | DRAFT | | | -121.7598 | 51 ° | -121.759908 | ٥ |
| DWR ID | DWR_MA0013_01_s _ 2016_4 | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

2011 - Small erosion pocket likely caused by irrigation diversion structure. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CHK_11-7_R]

No Photos

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 11.60 | Rating ** | A/W | Issue No. | | 122 | |
|----------|--------|--------------|------------------------|------------|-----|-------------|---|
| LM End | 11.60 | Issue Type + | Ma | Location * | | WS | |
| Category | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| ltom | DWR UC | IP LMA Respo | onsibility | 39.4426 | 39° | 39.442639 | 0 |
| Item | | | | -121.7600 | 70° | -121.760070 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51049 DS_ID:16333 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.

FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends. Crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 145). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 11.78)] FS Date: 11/30/2016 9:47:06 AM

| LM Start | 11.60 | Rating ** | A/W | Issue No. | 122 (cont) |
|----------|-------|--------------|-----|------------|------------|
| LM End | 11.60 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51049_66934.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51049_66932.jpg



WS slide gate with owner information.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 11.60 | Rating ** | A/W | Issue No. | | 122 (cont) | |
|----------|--------|--------------|------------------------|------------|----|-------------|---|
| LM End | 11.60 | Issue Type + | Ма | Location * | | WS | |
| Category | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.44263 | 9° | 39.442639 | ٥ |
| пеш | | | | -121.76007 | o° | -121.760070 | ٥ |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51049 DS_ID:16333 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.

FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends. Crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 145). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 11.78)] FS Date: 11/30/2016 9:47:06 AM



Trash rack on WS headwall.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 12.19 | Rating ** | М | Issue No. | | 123 |
|----------|--------|--------------|------------|------------------------|----|--------------|
| LM End | 12.19 | Issue Type + | Ma | Location * | | WS |
| Category | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.43516 | 9° | 39.435169° |
| пеш | | | | -121.76529 | o° | -121.765290° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51050 DS_ID:16334 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Cannot locate the WS pipe end. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end.7/13/2015 New screw gate installed inside the WS standpipe. 5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.38)] FS Date: 11/30/2016 9:52:33 AM

| LM Start | 12.19 | Rating ** | М | Issue No. | 123 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 12.19 | Issue Type + | Ма | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51050_66940.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51050_66936.jpg



View of Ws slope and channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 12.19 | Rating ** | М | Issue No. | | 123 (cont) | |
|-----------------------|--------|--------------|------------------------|------------|----|-------------|---|
| LM End | 12.19 | Issue Type + | Ма | Location * | | WS | |
| Category Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | egory | | | | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.43516 | 9° | 39.435169 | 0 |
| пеш | | | | -121.76529 | o° | -121.765290 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51050 DS_ID:16334 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Cannot locate the WS pipe end. (DWR Sutter Yard- AFreitag)4/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end.7/13/2015 New screw gate installed inside the WS standpipe. 5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.38)] FS Date: 11/30/2016 9:52:33 AM

Photo 3 of 3: UCIP_SP_2017_51050_66939.jpg



Slide gate located on WS slope.

| LM Start | 12.42 | Rating ** | М | Issue No. | | 62 | | |
|----------------------------------|-----------|--------------|------------------------|------------|------|--------------|--|--|
| LM End | 12.70 | Issue Type + | Ma | Location * | LS | | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | | |
| Itom | Vegetatio | n | | 39.432116° | | 39.428581 ° | | |
| Item | | | | -121.7673 | 41 ° | -121.769739° | | |
| DWR ID DWR_MA0013_01_f _ 2016_62 | | | | | | | | |
| Comment Code | | | | | | | | |

V1 : Control annual grass and weeds on the levee slopes and

easements.

Inspector Comment

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 12.74 | Rating ** | М | Issue No. | | 124 |
|-----------------------|--------|--------------|-----------|------------------------|----|---------------|
| LM End | 12.74 | Issue Type + | Ма | Location * | LS | |
| Category Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.42807 | o° | 39.428070 ° |
| пеш | | | | -121.77008 | ° | -121.770080 ° |
| DWR ID | | | | | | · |

Comment Code

Inspector Comment

FS_ID:51052 DS_ID:16336 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Slide gate still missing from inside the WS standpipe. (DWR Sutter Yard- AFreitag)4/28/2016 Slide gate was removed from inside the WS standpipe.7/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.94)] FS Date: 11/30/2016 9:55:46 AM

| LM Start | 12.74 | Rating ** | M | Issue No. | 124 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 12 74 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51052_66952.jpg



Overview picture looking south on right bank of Cherokee Canal.

Photo 2 of 3: UCIP_SP_2017_51052_66959.jpg



View of WS slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 12.74 | Rating ** | М | Issue No. | | 124 (cont) |
|-----------------------|--------|-----------------|------------|------------------------|---|---------------|
| LM End | 12.74 | Issue Type + Ma | | Location * | | LS |
| Category Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.42807 | ° | 39.428070 ° |
| пеш | | | | -121.770080 | ° | -121.770080 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51052 DS_ID:16336 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Slide gate still missing from inside the WS standpipe. (DWR Sutter Yard- AFreitag)4/28/2016 Slide gate was removed from inside the WS standpipe.7/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 12.94)] FS Date: 11/30/2016 9:55:46 AM

Photo 3 of 3: UCIP_SP_2017_51052_66951.jpg



Slide gate located on WS slope. Owner information marked on gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 13.29 | Rating ** | М | Issue No. | | 125 | |
|----------|-------------------------------------|-----------------|---|------------|-------------|-------------|---|
| LM End | 13.29 | Issue Type + En | | Location * | | LS | |
| Category | Supplemental GPS Latitude/Longitude | | | | e/Longitude | | |
| Calegory | | Start | | End | | | |
| Item | DWR UCIP Field Study | | | 39.4210 | 88° | 39.421088 | 0 |
| пеш | | | | -121.7751 | 04° | -121.775104 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51054 DS_ID:16461 EP_NO: 17030

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/17/2016 Markers missing near the levee. Oly marker present is located on the East side of the Unit2 levee. (DWR Sutter Yard- AFreitag)4/28/2016 Lines lines are suspected to be located on the upstream side of the roadway bridge and not the downstream side like the coordinates in this report show. Will need to take new coordinate readings. Markers are missing near levees.7/13/2015 Unable to locate.5/21/2014 Same as last inspection.12/3/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate any markers.4/18/2012 Attempt to locate this crossing during next inspection when tall grass is cleared from slopes-look for utility markers.

FIELD_STRUCT_DESC: 8-inch high density polyethylene (HDPE) communication conduit, contains three 2-inch and three 1.5-inch fiber optic cables, backfilled with bentonite on the ends of the bore casing through the levee at an unknown depth below the crown. Conduit is bored across and under Cherokee Canal and its levees. Permit records indicates the conduit is at least 5 feet below the bottom of the low flow of the channel. Owner is listed in the permit as Pacific Fiber Link LLC but permit Inspection sheets list Worldwide Fiber. (Permit No. 17030, 2000 - Worldwide Fiber)

FS Date: 11/30/2016 9:59:08 AM

| LM Start | 13.29 | Rating ** | М | Issue No. | 125 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 13.29 | Issue Type + | En | Location * | LS |



Marker located along side of road about 200 yds east of levees



Crossing owner contact info

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| | _ | | | | | | | |
|---|---------------|---------------|----------|------------|-------|--------------|--|--|
| LM Start | 13.32 | Rating ** | М | Issue No. | | 87 | | |
| LM End | 13.32 | Issue Type + | En | Location * | | WS | | |
| Cotogony | Earthen Levee | | | | titud | e/Longitude | | |
| Category | | | | Start | | End | | |
| Item | Encroach | Encroachments | | | 33° | 39.420783 ° | | |
| пеш | | | | -121.77554 | 15 ° | -121.775545° | | |
| DWR ID DWR_MA0013_01_s _ 2017_87 | | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| DE : Debri | S | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| Remove the debris from the waterside toe. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of the debris on the waterside toe.

| LM Start | 13.33 | Rating ** | A/W | Issue No. | | 126 | | | |
|----------|--------------|-----------------------------|-------|------------|------------------------|--------------|--|--|--|
| LM End | 13.33 | Issue Type + Ma | | Location * | | WS | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | Start | | End | | | | |
| Item | DWR UCI | DWR UCIP LMA Responsibility | | | | 39.420667 ° | | | |
| пеш | | | | -121.7757 | 00° | -121.775700° | | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51055 DS_ID:16337 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

FS Date: 11/30/2016 9:59:38 AM

UCIP Comments: 11/17/2016 Ws pipe end was submerged but crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)5/03/2016 Crossing appears to be in good condition.7/13/2015 New screwgate installed inside of WS standpipe.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.1 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log,

1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.53)]

Photo 1 of 3: UCIP_SP_2017_51055_66966.jpg



Overview of levee crown at crossing looking downstream.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 13.33 | Rating ** | A/W | Issue No. | | 126 (cont) | | |
|----------|--------------|--------------|-----------|------------|------------------------|---------------|--|--|
| LM End | 13.33 | Issue Type + | Ма | Location * | | WS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | Start | | End | | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.42066 | 7 ° | 39.420667° | | |
| пеш | | | | -121.77570 | o° | -121.775700 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51055 DS_ID:16337 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

FS Date: 11/30/2016 9:59:38 AM

UCIP Comments: 11/17/2016 Ws pipe end was submerged but crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)5/03/2016 Crossing appears to be in good condition.7/13/2015 New screwgate installed inside of WS standpipe.5/21/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.1 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.53)]

| LM Start | 13.33 | Rating ** | A/W | Issue No. | 126 (cont) |
|----------|-------|--------------|-----|------------|------------|
| LM End | 13.33 | Issue Type + | Ma | Location * | WS |



View of WS slope.

Photo 3 of 3: UCIP SP 2017 51055 66967.jpg



View of WS slope and channel.

U : Unacceptable A/W : Acceptable but Monitor & Maintain

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 13.76 | Rating ** | U | Issue No. | | 61 | | | |
|--------------|----------------------------------|------------------------|----------|-------------------|------|---------------|---------|-----|------------|
| LM End | 13.76 | Issue Type + | Ма | Location * | | LS | | | |
| Category | evee | GPS Latitude/Longitude | | | | | | | |
| Calegory | gory | | | Start | | End | | | |
| Item | Trim / Thin Trees | | | Trim / Thin Trees | | | 39.4168 | 54° | 39.416854° |
| пеш | | | | -121.7818 | 55 ° | -121.781855 ° | | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_61 | | | | | | | | |
| Comment Code | | | | | | | | | |
| T1 : Trim t | rees to at | east five feet | above gi | round level. | | | | | |

Inspector Comment



View of the overgrown trees and vegetation along the landside slope and toe.

| LM Start | 13.76 | Rating ** | М | Issue No. | | 127 |
|----------|----------|--------------|------------|------------|-------|---------------|
| LM End | 13.76 | Issue Type + | Ма | Location * | | LS |
| Catagony | Suppleme | ental | | GPS La | tituc | le/Longitude |
| Category | | | | Start | | End |
| Item | DWR UCI | P LMA Respo | onsibility | 39.4168 | 33 ° | 39.416833° |
| iteiii | | | | -121.7819 | 30° | -121.781930 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51056 DS_ID:16338 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Appears abandoned. WS flap gate completely silted over and LS screw gate is completely overgrown by a tree and is not accessible for inspection. (DWR Sutter Yard-AFreitag)5/3/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree.7/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.96)]

FS Date: 11/30/2016 10:02:08 AM

Photo 1 of 3: UCIP SP 2017 51056 66970.jpg



WS headwall and flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 13.76 | Rating ** | М | Issue No. | | 127 (cont) |
|----------|----------|--------------|------------|-------------|-----|--------------|
| LM End | 13.76 | Issue Type + | Ma | Location * | | LS |
| Category | Suppleme | ental | | GPS Lati | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.416833 | 3° | 39.416833° |
| пеш | | | | -121.781930 | ° | -121.781930° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51056 DS_ID:16338 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Appears abandoned. WS flap gate completely silted over and LS screw gate is completely overgrown by a tree and is not accessible for inspection. (DWR Sutter Yard-AFreitag)5/3/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree.7/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutack.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.96)]

FS Date: 11/30/2016 10:02:08 AM

| LM Start | 13.76 | Rating ** | М | Issue No. | 127 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 13.76 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3: UCIP_SP_2017_51056_66971.jpg



View of channel at crossing.

Photo 3 of 3: UCIP SP 2017 51056 66969.jpg



Tree fallen at LS headwall.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 13.77 | Rating ** | М | Issue No. | | 128 |
|----------|----------|--------------|------------|------------|-----|---------------|
| LM End | 13.77 | Issue Type + | Ma | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.41675 | o° | 39.416756° |
| пеш | | | | -121.78206 | ° | -121.782060 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51057 DS_ID:16339 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/03/2016 ABANDONED CROSSING7/13/2015 Abandoned crossing. Slide gate is buried on the WS.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 Non-functional crossing-buried slide gate on WS. Limited inspeciton on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspeciton report as Corp's Inspection ID# USACE_CESPK_M13D_2011_p_0352 for abandoned gate on WS slope.

FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel drainage pipe through the levee, 3 feet below the crown. Gate valve on the waterside (WS) slope. 0.25-inch steel plate welded on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 13.97)] FS Date: 11/30/2016 10:04:30 AM

Rating ** Issue No. LM Start 13.77 128 (cont) 13.77 Issue Type + Ма Location * LS LM End





Buried slide gate on the WS slope.

Photo 2 of 2: UCIP_SP_2017_51057_66973.jpg



View of LS slope and toe. Unable to find welded plate on LS.

MA0013

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 14.21 | Rating ** | М | Issue No. | | 60 | |
|----------------------------------|---------------|--------------|----------|-------------|--------|---------------|--|
| LM End | 14.21 | Issue Type + | Ma | Location * | | LS | |
| Category | Earthen Levee | | | GPS La | atitud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Vegetation | | | | 39.4127 | 76° | 39.412776 ° | |
| пеш | | -121.7 | | | 73° | -121.788573 ° | |
| DWR ID DWR_MA0013_01_f _ 2016_60 | | | | | | | |
| | | Comn | nent Coo | le | | | |
| V1 : Contro | ol annual g | rass and wee | ds on th | e levee slo | pes a | and | |
| easements | S. | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

| LM Start | 14.22 | Rating ** | М | Issue No. | | 59 | _ |
|------------|-------------------|----------------|----------|---------------|--------|--------------|---|
| LM End | 14.22 | Issue Type + | En | Location * | | LS | |
| Category | Earthen Levee | | | GPS L | atitud | le/Longitude | |
| Category | | | | Start | | End | |
| Item | Encroachments | | | 39.4127 | '26 | 39.412726 | 0 |
| item | | | | -121.788658 ° | | -121.788658 | 0 |
| DWR ID | DWR_MA0 | 013_01_f _ 201 | 6_59 | | | | |
| | | Comn | nent Cod | le | | | |
| DE : Debri | s | | | | | | |
| | | | | | | | |
| | Inspector Comment | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 14.58 | Rating ** | U | Issue No. | | 129 | |
|----------|----------|--------------|-----------|------------|-------|--------------|---|
| LM End | 14.58 | Issue Type + | Ma | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | tituc | le/Longitude | |
| Calegory | TY | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.4094 | 81 ° | 39.409481 | 0 |
| пеш | | | | -121.7940 | 10° | -121.794010 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS ID:51058 DS_ID:16368 EP NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Top of pipe on WS still showing heavy signs of corrosion with visible holes between the flapgate flange and the concrete headwall. The pipe was mostly underwater so could not internally inspect it for more damage or corrosion. (DWR Sutter Yard-AFreitag)5/03/2016 Top of the pipe on the WS has holes in it between the flapgate flange and headwall. Crossing is showing signs of rust and deterioation but it was mostly underwater so could not inspect the inside of the pipe. (DWR Sutter Yard - afreitag)7/13/2015 Both sides of crossing were underwater at the time of inspection. (DWR Sutter Yard afreitag)5/22/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard afreitag)7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flapgate is still lodged open. (DWR Sutter Yard afreitag)4/18/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 14.79)]

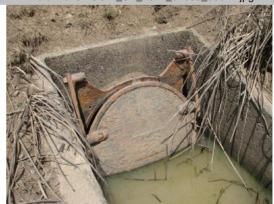
FS Date: 11/30/2016 10:10:50 AM

| LM Start | 14.58 | Rating ** | U | Issue No. | 129 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 14.58 | Issue Type + | Ma | Location * | LS |



Headwall and flapgate located on water side of levee

Photo 2 of 3: UCIP_SP_2017_51058_66974.jpg



Headwall and flapgate located on water side of levee

Location Rating + Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable WS: Water Side C: Corrected Ob: Design & System Obsolescence En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 14.58 | Rating ** | U | Issue No. | | 129 (cont) | |
|----------|----------|-----------------|-----------|------------|-------|--------------|---|
| LM End | 14.58 | Issue Type + Ma | | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | titud | le/Longitude | |
| Calegory | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.40948 | 81 ° | 39.409481 | 0 |
| пеш | | | | -121.7940 | 10° | -121.794010 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51058 DS_ID:16368 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Top of pipe on WS still showing heavy signs of corrosion with visible holes between the flapgate flange and the concrete headwall. The pipe was mostly underwater so could not internally inspect it for more damage or corrosion. (DWR Sutter Yard-AFreitag)5/03/2016 Top of the pipe on the WS has holes in it between the flapgate flange and headwall. Crossing is showing signs of rust and deterioation but it was mostly underwater so could not inspect the inside of the pipe. (DWR Sutter Yard - afreitag)7/13/2015 Both sides of crossing were underwater at the time of inspection. (DWR Sutter Yard afreitag)5/22/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/3/2013 Same as last inspection. (DWR Sutter Yard afreitag)7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flapgate is still lodged open. (DWR Sutter Yard afreitag)4/18/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 14.79)]

FS Date: 11/30/2016 10:10:50 AM



Head wall and screw gate located on land side of levee

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 14.91 | Rating ** | A/W | Issue No. | | 130 |
|----------|----------|------------------------|-----------|------------|-----|---------------|
| LM End | 14.91 | Issue Type + | Ма | Location * | | LS |
| Category | Suppleme | GPS Latitude/Longitude | | | | |
| Calegory | | | | | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.40657 | 0 ° | 39.406570 ° |
| пеш | | | | -121.79877 | o° | -121.798770 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51059 DS_ID:16367 EP_NO: N/A

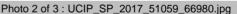
Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing appears to be in good condition.7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need overall photo of crossing and photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.12)] FS Date: 11/30/2016 10:25:11 AM

| LM Start | 14.91 | Rating ** | A/W | Issue No. | 130 (cont) |
|----------|-------|--------------|-----|------------|------------|
| LM End | 14.91 | Issue Type + | Ma | Location * | LS |



WS headwall and flapgate





Slide gate located on LS toe. Dense vegetation present on LS slope.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 14.91 | Rating ** | A/W | Issue No. | | 130 (cont) |
|----------|----------|----------------------------------|-----------|------------|-----|--------------|
| LM End | 14.91 | 14.91 Issue Type + Ma Location * | | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.40657 | o° | 39.406570° |
| пеш | | | | -121.79877 | ° | -121.798770° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51059 DS_ID:16367 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing appears to be in good condition. 7/13/2015 Crossing appears in good condition. No noticeable issues to report.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need overall photo of crossing and photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.12)] FS Date: 11/30/2016 10:25:11 AM



WS slope cleared of vegetation

| LM Start | 15.01 | Rating ** | М | Issue No. | 58 | | |
|----------------------------------|-----------|--------------|----|------------------------|------|---------------|--|
| LM End | 15.09 | Issue Type + | Ma | Location * | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | Start | | End | | | |
| Item | Vegetatio | n | | 39.4056 | 30° | 39.404872 ° | |
| пеш | | | | -121.8002 | 65 ° | -121.801491 ° | |
| DWR ID DWR_MA0013_01_f _ 2016_58 | | | | | | | |
| Comment Code | | | | | | | |

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_300_58_20170315_00015.jpg



View of the dense vegetation along the landside toe.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 15.58 | Rating ** | M | Issue No. | | 57 | | |
|------------|----------------------------------|--------------|----------|---------------|--|---------------|--|--|
| LM End | 15.58 | Issue Type + | Ма | Location * | | LS | | |
| Cotogony | evee | GPS La | atitud | le/Longitude | | | | |
| Category | | Start | | End | | | | |
| Item | Slope Stability | | | | | 39.400380° | | |
| пеш | | | | -121.808432 ° | | -121.808432 ° | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_57 | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| S1 : Repai | ir slope ins | tability. | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of slope instability along the landside slope.

Photo 1 of 1: SP_2017_MA0013_300_86_20170508_00142.jpg

| LM Start | 15.71 | Rating ** | М | Issue No. | | 86 | | |
|------------------------|---------------|----------------|------|------------------------|-----|---------------|--|--|
| LM End | 15.71 | Issue Type + | En | Location * | | WS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Category | tegory | | | | | End | | |
| Item | Encroachments | | | 39.399168° | | 39.399168° | | |
| пеш | | | | -121.8103 | 17° | -121.810317 ° | | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 7_86 | | | | | |
| Comment Code | | | | | | | | |
| DE : Debris | | | | | | | | |
| | | | | | | | | |

Inspector Comment Remove the debris from the waterside toe.

S6/189/2017

View of the debris along the waterside toe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 15.72 | Rating ** | М | Issue No. | | 131 |
|----------|----------|--------------|-----------|-------------|-----|---------------|
| LM End | 15.72 | Issue Type + | Ма | Location * | WS | |
| Category | Suppleme | ental | | GPS Lati | tud | le/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.39905 | 1° | 39.399051 ° |
| пеш | | | | -121.810550 | ° | -121.810550 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51060 DS_ID:16364 EP_NO: 7521

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Both pipe ends underwater at time of inspection. (DWR Sutter Yard- AFreitag)5/3/2016 Tree near the WS pipe end has been cut down. Stump is still in place. Water was too high to be able to see if the pipe inside was damaged. Minor erosion starting behind the WS headwall.7/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. A 48-inch corrugated metal standpipe located approximately 12 feet from landside (LS) levee toe. (Permit No. 7521, 1972 - Askew Ranch) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.95)]

FS Date: 11/30/2016 10:36:52 AM



Photo 1 of 3 : UCIP_SP_2017_51060_66989.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3: UCIP_SP_2017_51060_66987.jpg



View of WS.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 15.72 | Rating ** | М | Issue No. | | 131 (cont) |
|----------|----------|--------------|------------|-------------|-----|---------------|
| LM End | 15.72 | Issue Type + | Ma | Location * | WS | |
| Category | Suppleme | ental | | GPS Lati | tuc | le/Longitude |
| Calegory | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.39905 | 1° | 39.399051 ° |
| пеш | | | | -121.810550 | ° | -121.810550 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51060 DS_ID:16364 EP_NO: 7521

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Both pipe ends underwater at time of inspection. (DWR Sutter Yard- AFreitag)5/3/2016 Tree near the WS pipe end has been cut down. Stump is still in place. Water was too high to be able to see if the pipe inside was damaged. Minor erosion starting behind the WS headwall.7/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Slopes have been cleared of vegetation and are in good condition.4/18/2012 Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. A 48-inch corrugated metal standpipe located approximately 12 feet from landside (LS) levee toe. (Permit No. 7521, 1972 - Askew Ranch) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.95)]

FS Date: 11/30/2016 10:36:52 AM

Photo 3 of 3: UCIP_SP_2017_51060_66986.jpg



View of headwall within channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 15.77 | Rating ** | М | Issue No. | | 132 | |
|----------|--------------|----------------|-------|------------------------|-----|---------------|--|
| LM End | 15.77 | Issue Type + | En | Location * | WS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.39861 | 5 ° | 39.398615 ° | |
| пеш | | | | -121.81125 | 0 ° | -121.811250 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS ID:51061 DS_ID:16373 EP NO: 11805B Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Both pipe ends underwater at time of inspection. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing was underwater on both sides of levee during this inspection. Looks as if the wodden walkway was the same and no repairs have been made.7/13/2015 LS inlet still underwater. WS screwgate appears in good condition. Wooden wlalkway to the screwgate needs repairs.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 LS inlet is not visible-underwater. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 48-inch reinforced concrete irrigation pipe with six concrete collars through the levee, 14.4 feet below the crown to center of conduit. Slide gate, head-wall and wood walkway on two concrete piers on the waterside (WS) of levee. Revetment on the WS slope. Irrigation ditch on the landside (LS). (Permit No. 11805, 11805B, 1979 - Elna Schohr, Inc.) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/30/2016 10:40:33 AM

| LM Start | 15.77 | Rating ** | М | Issue No. | 132 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 15.77 | Issue Type + | En | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51061_66993.jpg



WS view of appurtances (catwalk, slide gate, and headwall)

Photo 2 of 3: UCIP SP 2017 51061 66995.jpg



WS view of catwalk, slide/screw gate, and headwall

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 15.77 | Rating ** | М | Issue No. | 132 (cont) | |
|----------|--------------|----------------|-------|------------------------|------------|---------------|
| LM End | 15.77 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.398615° | | 39.398615° |
| item | | | = | | 0° | -121.811250 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51061 DS_ID:16373 EP_NO: 11805B Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Both pipe ends underwater at time of inspection. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing was underwater on both sides of levee during this inspection. Looks as if the wodden walkway was the same and no repairs have been made.7/13/2015 LS inlet still underwater. WS screwgate appears in good condition. Wooden wlalkway to the screwgate needs repairs.5/22/2014 Same as last inspection.12/3/2013 Same as last inspection.7/15/2013 Same as last inspection.4/18/2012 LS inlet is not visible-underwater. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 48-inch reinforced concrete irrigation pipe with six concrete collars through the levee, 14.4 feet below the crown to center of conduit. Slide gate, head-wall and wood walkway on two concrete piers on the waterside (WS) of levee. Revetment on the WS slope. Irrigation ditch on the landside (LS). (Permit No. 11805, 11805B, 1979 - Elna Schohr, Inc.) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/30/2016 10:40:33 AM



LS view of shoulder and slope.

| LM Start | 16.22 | Rating ** | M | Issue No. | | 7 | |
|-----------------------|-------------------|----------------|------------------------|---------------|--|---------------|--|
| LM End | 17.17 | Issue Type + | En | Location * | | LS | |
| Cotagon Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Category | Category | | | Start | | End | |
| Item | Encroachments | | | 39.394523 ° | | 39.385580 ° | |
| пеш | | | | -121.817630 ° | | -121.831282 ° | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 2_7 | | | | |
| | | Comn | nent Cod | le | | | |
| DT : Ditch | | | | | | | |
| | | | | | | | |
| | Inspector Comment | | | | | | |
| | | | | | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 16.52 | Rating ** | M | Issue No. | | 56 |
|----------------------------------|--------------|----------------|----------|------------------------|--------------|------------|
| LM End | 16.52 | Issue Type + | Ma | Location * | | LS |
| Earthen Levee | | | GPS La | atitud | le/Longitude | |
| Category | | | | Start | | End |
| Trim / Thin Trees | | | | 39.3916 | 75° | 39.391675° |
| пеш | | | | -121.821932 ° -121.821 | | |
| DWR ID DWR_MA0013_01_f _ 2016_56 | | | | | | |
| | | Comn | nent Cod | le | | |
| T1: Trim t | rees to at l | east five feet | above g | round level. | | |
| | | | | | | |
| | | Inspecto | or Comm | nent | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



View of dense trees along the landside toe.

| LM Start | 16.88 | Rating ** | М | Issue No. | | 55 | | |
|-------------------|----------------------------------|--------------|----------|------------------------|-----|---------------|--|--|
| LM End | 16.88 | Issue Type + | Ma | Location * | | LS | | |
| Category | Catagoria Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Slope Stability | | | 39.3883 | 26° | 39.388326 ° | | |
| пеш | | | | -121.827137° -121.82 | | -121.827137 ° | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_55 | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| S1 : Repai | r slope ins | tability. | | | | | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of slope instability issue along the landside slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 17.18 | Rating ** | М | Issue No. | | 133 | |
|----------|--------------|----------------|----|------------------------|-----|---------------|--|
| LM End | 17.18 | Issue Type + | En | Location * | LS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.38554 | 0 ° | 39.385540° | |
| пеш | | | | -121.83128 | 0 ° | -121.831280 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51063 DS_ID:16371 EP_NO: 3511

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 11/17/2016 Unable to locate. (DWR Sutter Yard-AFreitag)5/03/2016 Unable to locate.7/13/2015 Unable to locate.5/22/2014 Same as last inspection.12/3/2013 Unable to locate.7/15/2013 Same as last inspection. Unable to locate.4/18/2012 Unable to determine if cable is still in use, per permit records indicate communication cable was installed in 1961, 1968 USACE requested to abandon line, 1974 USACE communication is not abandoned. Cable crosses multiple levees.

FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3 feet below the crown. (Permit No. 3511, 1961 - US Army Engineer Disrict) [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 11/30/2016 10:45:33 AM

No Photos

+ Issue Type
Ma : Maintenance Deficiancy

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 17.23 | Rating ** | A/W | Issue No. | | 134 |
|----------|----------|--------------|----------------------|------------|------|-------------|
| LM End | 17.23 | Issue Type + | Ма | Location * | LS | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude |
| Calegory | | | S | | | End |
| Item | DWR UC | IP LMA Respo | P LMA Responsibility | | 2° | 39.385172 |
| пеш | | | | -121.83206 | o° | -121.832060 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51066 DS_ID:16369 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing appears to be in good condition.7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.5/22/2014 Same as last inspection.12/3/2013 Sediment was dug out from WS flapgate allowing it to open.7/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flapgate is blocked from opening by sediment buildup.4/18/2012 Limited inspection on WS and LS slope due to dense vegatation and steep slopes. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 17.47)]

FS Date: 11/30/2016 10:48:14 AM

| LM Start | 17.23 | Rating ** | A/W | Issue No. | 134 (cont) |
|----------|-------|--------------|-----|------------|------------|
| LM End | 17.23 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3 : UCIP_SP_2017_51066_67017.jpg



View of WS slope and toe.

Photo 2 of 3: UCIP_SP_2017_51066_67019.jpg



View of WS headwall and flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 17.23 | Rating ** | A/W | Issue No. | | 134 (cont) |
|----------|----------|--------------|-----------|------------|-------|---------------|
| LM End | 17.23 | Issue Type + | Ма | Location * | LS | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude |
| Calegory | | | | Start End | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.3851 | 72 ° | 39.385172 ° |
| пеш | | | | -121.8320 | 60° | -121.832060 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51066 DS_ID:16369 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/03/2016 Crossing appears to be in good condition.7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.5/22/2014 Same as last inspection.12/3/2013 Sediment was dug out from WS flapgate allowing it to open.7/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flapgate is blocked from opening by sediment buildup.4/18/2012 Limited inspection on WS and LS slope due to dense vegatation and steep slopes. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 17.47)]

FS Date: 11/30/2016 10:48:14 AM

Photo 3 of 3: UCIP_SP_2017_51066_67018.jpg

View of LS headwall.

| LM Start | 17.46 | Rating ** | М | Issue No. | | 9 |
|----------|---------------|----------------|----------|------------------------|-------------|---------------|
| LM End | 17.50 | Issue Type + | En | Location * | LS | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | Start End | |
| Item | Encroachments | | 39.3829 | 43 ° | 39.382635 ° | |
| пеш | | | | -121.8354 | 47 ° | -121.836012 ° |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 2_9 | | | |
| | | Comn | nent Cod | le | | |

DT : Ditch

Inspector Comment

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Cherokee Canal | Right | 18.19 | 05/03/2017 05/03/2017 | Bob Duffey |

| LM Start | 17.47 | Rating ** | М | Issue No. | | 15 | | |
|------------|----------|----------------|----------|--------------|-----|--------------|--|--|
| LM End | 17.94 | Issue Type + | En | Location * | | LS | | |
| Category | evee | GPS La | atitud | le/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Encroach | ments | | 39.3828 | 52° | 39.378481 ° | | |
| пеш | | | | -121.8356 | 54° | -121.842394° | | |
| DWR ID | DWR_MA0 | 013_01_s _ 201 | 2_15 | | | | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

No Photos

| LM Start | 18.53 | Rating ** | М | Issue No. | | 53 | | | |
|----------|----------------------------------|--------------|-----------|------------|------------------------|------------|--|--|--|
| LM End | 18.59 | Issue Type + | Ма | Location * | Location * WS | | | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | Jalegory | | | | | End | | | |
| Item | Vegetatio | n | | 39.3731 | 65 ° | 39.372718° | | | |
| iteiii | | | -121.8509 | 02 ° | -121.851840 ° | | | | |
| DWR ID | DWR ID DWR_MA0013_01_f _ 2016_53 | | | | | | | | |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



Photo 1 of 1: SP_2017_MA0013_300_53_20170315_00011.jpg



View of the dense vegetation along the landside slope and toe.

| LM Start | 18.58 | Rating ** | М | Issue No. | 54 | | | | |
|----------------------------------|--------------|--------------|------------|------------|--------------|-----------|---|--|--|
| LM End | 18.58 | Issue Type + | Ma | Location * | LS | | | | |
| Earthen Levee | | | GPS Lat | itud | le/Longitude | | | | |
| Category | | | | Start | | End | | | |
| Itom | Animal Co | ontrol | | 39.37279 | 3° | 39.372793 | 0 | | |
| Item | | | -121.85167 | 7 ° | -121.851677 | 0 | | | |
| DWR ID DWR_MA0013_01_f _ 2016_54 | | | | | | | | | |
| | Comment Code | | | | | | | | |

| LM Start | 18.58 | Rating ** | М | Issue No. | | 54 | |
|--------------------------|-----------|----------------------|--------------|--------------|-------|--------------|---|
| LM End | 18.58 | Issue Type + | Ma | Location * | LS | | |
| Category | GPS La | atitud | le/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Animal Co | ontrol | | 39.3727 | 93° | 39.372793 | 0 |
| item | | | | -121.8516 | 77° | -121.851677 | 0 |
| DWR ID | DWR_MAG | 013_01_f _ 201 | 6_54 | | | | |
| | | Comn | nent Cod | le | | | |
| A3 : No roo compact o | | le, but rodent rows. | burrows | visible; nee | ed to | backfill and | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles |
|----------------------------|------|------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|-------------------------------------|--|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 5/4/2017 - 5/4/2017 | | | |
| DWR Inspector | Bob Duffey | | | |
| Accompanied By | Shawn Freitag Sutter Maintenance Yard | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.05 | Rating ** | М | Issue No. | 912 | | |
|----------|----------|------------------------|------------|------------|-----|-------------|---|
| LM End | 0.05 | Issue Type + | Ма | Location * | LS | | |
| Category | Suppleme | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5738 | 16° | 39.573816 | ٥ |
| пеш | | | | -121.7012 | 90° | -121.701290 | ٥ |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51068 DS_ID:16397 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. 4inch pipe still present on LS but it does not affect the function of the crossing. (DWR Sutter Yard- AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)4/27/2016 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the was through to the WS. (DWR Sutter Yard afreitag)7/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 4in. Pipe was removed and flapgate is closed and ready for high water. (DWR Sutter Yard - afreitag)7/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard afreitag)4/19/2012 4-6 inch pipe is not part of original crossing-remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID#

USACE_CESPK_M13G_2011_p_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.04].

FS Date: 11/30/2016 12:34:10 PM



Overview looking south on left levee

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.05 | Rating ** | М | Issue No. | | 912 (cont) | | | |
|----------|----------|------------------------|------------|------------|------|-------------|---|----|--|
| LM End | 0.05 | Issue Type + | Ма | Location * | | Location * | | LS | |
| Category | Suppleme | GPS Latitude/Longitude | | | | | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5738 | 16° | 39.573816 | 0 | | |
| пеш | | | | -121.7012 | 90 ° | -121.701290 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51068 DS_ID:16397 EP_NO: N/A

omagana)

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. 4inch pipe still present on LS but it does not affect the function of the crossing. (DWR Sutter Yard- AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)4/27/2016 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the was through to the WS. (DWR Sutter Yard afreitag)7/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 4in. Pipe was removed and flapgate is closed and ready for high water. (DWR Sutter Yard - afreitag)7/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard afreitag)4/19/2012 4-6 inch pipe is not part of original crossing-remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (DWR UCIP -

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.04].

FS Date: 11/30/2016 12:34:10 PM



Headwall and flap gate on WS. Soil and pipes stockpiled next to headwall.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.05 Rating ** M | | Issue No. | | 912 (cont) | | |
|----------|-------------------------|--------------|------------|------------|------------|-------------|---|
| LM End | 0.05 Issue Type + Ma | | | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5738 | 16° | 39.573816 | 0 |
| пеш | | | | -121.7012 | 90 ° | -121.701290 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51068 DS_ID:16397 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. 4inch pipe still present on LS but it does not affect the function of the crossing. (DWR Sutter Yard- AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)4/27/2016 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the was through to the WS. (DWR Sutter Yard afreitag)7/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 4in. Pipe was removed and flapgate is closed and ready for high water. (DWR Sutter Yard - afreitag)7/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard afreitag)4/19/2012 4-6 inch pipe is not part of original crossing-remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0009 for WS flap gate not functioning

omagana)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe
through the levee, 6 feet below the crown. Concrete "U" headwalls on
both WS and landside (LS). Flap gate on the waterside (WS) end.
[Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento

properly as irrigation pipe passes inside crossing. (DWR UCIP -

O&M Manual 519, June 1962 (HLM 0.04]. FS Date: 11/30/2016 12:34:10 PM



LS headwall blocked by overgrown branches.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.06 | Rating ** | М | Issue No. | | 50 | | | | | |
|--------------------------|-------------------|-----------------|-------------|---------------|------------|--------------|--|--|--|--|--|
| LM End | 0.06 | Issue Type + | Ma | Location * | | WS | | | | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | | | | | |
| Calegory | | | | Start | | End | | | | | |
| Trim / Thin Trees | | | 39.5736 | 92° | 39.573692° | | | | | | |
| Item | | | | -121.701286 ° | | -121.701286° | | | | | |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_50 | | | | | | | | |
| | | Comn | nent Cod | le | | | | | | | |
| T3 : Trim a flood fight. | and thin tre | es to allow vis | sibility of | the ground | lanc | I room to | | | | | |
| | Inspector Comment | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

No Photos

| LM Start | 0.07 | Rating ** | М | Issue No. | 1 | | | | |
|------------------------|----------|----------------|----|------------|-------|---------------|--|--|--|
| LM End | 0.17 | Issue Type + | En | Location * | WS | | | | |
| Category Earthen Levee | | | | GPS La | titud | le/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | Encroach | ncroachments | | | 23° | 39.572455 ° | | | |
| пеш | | | | -121.70138 | 37° | -121.702370 ° | | | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | | | | | | | |
| Comment Code | | | | | | | | | |
| | | | | | | | | | |

No Photos

EQ : Equipment

Inspector Comment

| LM Start | 0.21 | Rating ** | М | Issue No. | 53 | | | |
|---------------------------|---------------|----------------|------|---------------|--------|---------------|--|--|
| LM End | 0.56 | Issue Type + | En | Location * | LS | | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | | |
| Category | | | | Start | | End | | |
| Item | Encroachments | | | 39.5718 | 21 ° | 39.566737 ° | | |
| item | | | | -121.702372 ° | | -121.702316 ° | | |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_53 | | | | | |
| Comment Code | | | | | | | | |
| AT : Agricultural tilling | | | | | | | | |

Inspector Comment

Monitor the tilling to make sure farmer is not encroaching into the levee.

Photo 1 of 1 : SP_2017_MA0013_301_53_20170315_00013.jpg



View of ag tilling at the landside levee toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.58 | Rating ** | М | Issue No. | | 913 | |
|----------|----------------------|-------------|------------|------------|--------|-------------|---|
| LM End | 0.58 Issue Type + Ma | | | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | P LMA Respo | onsibility | 39.5664 | 79° | 39.566479 | 0 |
| пеш | | | | -121.7024 | 30° | -121.702430 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51069 DS_ID:16398 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Between the screwgate on the WS shoulder and the LS pipe end the pipe is about 50% full of soil. Crossing is still actively used by landowner for irrigation purposes. (DWR Sutter Yard- AFreitag)4/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition.7/01/2015 LS pipe end is still about 50% full of sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken.4/19/2012 Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.57)] FS Date: 11/30/2016 12:38:12 PM

| LM Start | 0.58 | Rating ** | М | Issue No. | 913 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 0.58 | Issue Type + | Ma | Location * | LS |



Overview looking south

Photo 2 of 3: UCIP_SP_2017_51069_67048.jpg



View of WS slope and toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 0.58 Rating ** | | М | Issue No. | | 913 (cont) | | |
|-----------------------|----------------------|--------------|-----------|------------------------|----|-------------|---|--|
| LM End | 0.58 Issue Type + Ma | | | Location * | | LS | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.56647 | 9° | 39.566479 | 0 | |
| item | | | | -121.70243 | ° | -121.702430 | 0 | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51069 DS_ID:16398 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Between the screwgate on the WS shoulder and the LS pipe end the pipe is about 50% full of soil. Crossing is still actively used by landowner for irrigation purposes. (DWR Sutter Yard- AFreitag)4/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition.7/01/2015 LS pipe end is still about 50% full of sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken.4/19/2012 Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 0.57)] FS Date: 11/30/2016 12:38:12 PM

Photo 3 of 3: UCIP_SP_2017_51069_67045.jpg



Screw gate located on WS of levee. Screw gate covers needs to be repaired.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 1.60 | Rating ** | U | Issue No. | | 56 | |
|----------------------------------|----------|--------------|------------------------|------------|------|---------------|--|
| LM End | 1.63 | Issue Type + | En | Location * | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Encroach | ments | | 39.5521 | 95° | 39.551731 ° | |
| item | | | | -121.7047 | ° 88 | -121.704721 ° | |
| DWR ID DWR_MA0013_02_s _ 2016_56 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| DT : Ditch | | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Photo 1 of 1 : SP_2017_MA0013_301_56_20170315_00016.jpg

View of the agricultural ditch along the landside toe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 1.70 | Rating ** | М | Issue No. | | 914 | | |
|----------|--------------|--------------|-----------|------------------------|-------|---------------|--|--|
| LM End | 1.70 | Issue Type + | Ма | Location * | | LS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Calegory | | | | Start | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.55117 | в° | 39.551178° | | |
| пеш | | | | -121.70566 | o° | -121.705660 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51071 DS_ID:16399 EP_NO: N/A

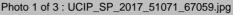
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS screw gate still bent and in-operable. (DWR Sutter Yard- AFreitag)4/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.7/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.5/29/2014 Same as last inspection.12/9/2013 Same as last

inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.4/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning becasue of overgrown vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 1.70)] FS Date: 11/30/2016 12:41:27 PM





Overview of crossing

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 1.70 | Rating ** | М | Issue No. | | 914 (cont) | | |
|----------|--------------|--------------|------------|------------------------|----|-------------|--|--|
| LM End | 1.70 | Issue Type + | Ma | Location * | LS | | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Category | | | | | End | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.55117 | 8° | 39.551178 | | |
| пеш | | | | -121.70566 | o° | -121.705660 | | |
| DWR ID | | | | | | | | |

Inspector Comment

Comment Code

FS_ID:51071 DS_ID:16399 EP_NO: N/A

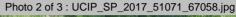
Repair Type: Non-Urgent Crossing Status: Found

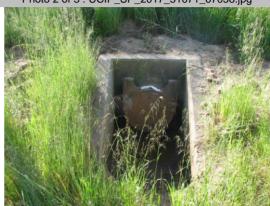
UCIP Comments: 11/18/2016 LS screw gate still bent and in-operable. (DWR Sutter Yard- AFreitag)4/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.7/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.5/29/2014 Same as last inspection.12/9/2013 Same as last

inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.4/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning becasue of overgrown vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 1.70)] FS Date: 11/30/2016 12:41:27 PM





View of flap gate on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 1.70 | Rating ** | М | Issue No. | | Issue No. | | 914 (cont) |
|----------|--------------|--------------|-----------|------------------------|----|---------------|--|------------|
| LM End | 1.70 | Issue Type + | Ма | Location * | | LS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Category | | | | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.55117 | 3° | 39.551178 ° | | |
| пеш | | | | -121.70566 | ° | -121.705660 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51071 DS_ID:16399 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS screw gate still bent and in-operable. (DWR Sutter Yard- AFreitag)4/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.7/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.5/29/2014 Same as last inspection.12/9/2013 Same as last

inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.4/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning becasue of overgrown vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 1.70)] FS Date: 11/30/2016 12:41:27 PM

Photo 3 of 3: UCIP_SP_2017_51071_67057.jpg



View of WS toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 1.73 | Rating ** | М | Issue No. | | 83 | |
|----------------------------------|------------|-----------------|-----------|------------|-------|---------------|--|
| LM End | 1.77 | Issue Type + | Ma | Location * | WS | | |
| Category | Earthen L | evee | | GPS La | titud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Erosion / | Bank Caving | | 39.55076 | 65 ° | 39.550208° | |
| пеш | | | | -121.70596 | 63 ° | -121.706052 ° | |
| DWR ID DWR_MA0013_02_s _ 2017_83 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| E1 : Note a | and monito | or erosion site | | | | | |
| | | | _ | | | | |
| | | Inspecto | or Comm | nent | | | |
| Repair the | erosion al | ong the water | side slop | oe. | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of erosion along the waterside toe.

| LM Start | 2.53 | Rating ** | A/W | Issue No. | | 915 | | | | | | |
|----------|--------|--------------------------|-----------|---------------------------------|-----|---------------|--|------------|--|------------|--|----|
| LM End | 2.53 | Issue Type + Ma Location | | 2.53 Issue Type + Ma Location * | | Location * | | Location * | | Location * | | WS |
| Category | | | | GPS Latitude/Longitude | | | | | | | | |
| Category | | | | Start | | End | | | | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.53919 | 5 ° | 39.539195° | | | | | | |
| пеш | | | | -121.70607 | 0 ° | -121.706070 ° | | | | | | |
| DWR ID | | | | | | · | | | | | | |

Comment Code Inspector Comment

FS_ID:51072 DS ID:16400 EP_NO: N/A

Repair Type: No Action Needed

Crossing Status: Found

UCIP Comments: 11/18/2016 Sediment dug out from in front of flap gate. Gate can now function properly. (DWR Sutter Yard-AFreitag)4/27/2016 WS flapgate still blocked from opening by sediment buildup.7/01/2015 New screwgate installed on the LS. WS flapgate is still blocked from opening by sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing.4/19/2012 Handle missing on slide gate.

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54)]

FS Date: 11/30/2016 12:42:19 PM

Photo 1 of 3: UCIP_SP_2017_51072_67063.jpg



Overview of levee crown looking south

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.53 | Rating ** | A/W | Issue No. | | 915 (cont) | |
|----------|----------|--------------|------------------------|------------|------|---------------|--|
| LM End | 2.53 | Issue Type + | Ma | Location * | * WS | | |
| Category | Suppleme | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53919 | 5 ° | 39.539195 ° | |
| пеш | | | | -121.70607 |) ° | -121.706070 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51072 DS_ID:16400 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Sediment dug out from in front of flap gate. Gate can now function properly. (DWR Sutter Yard-AFreitag)4/27/2016 WS flapgate still blocked from opening by sediment buildup.7/01/2015 New screwgate installed on the LS. WS flapgate is still blocked from opening by sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing.4/19/2012 Handle missing on slide gate.

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54)]

FS Date: 11/30/2016 12:42:19 PM

| LM Start | 2.53 | Rating ** | A/W | Issue No. | 915 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 2.53 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3: UCIP_SP_2017_51072_67068.jpg



View of WS slope.

Photo 3 of 3: UCIP_SP_2017_51072_67064.jpg



Headwall and flap gates (2) located on WS

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.53 | Rating ** | A/W | Issue No. | | 916 | | | |
|----------|--------------|--------------|-----------|------------|------------------------|---------------|--|--|--|
| LM End | 2.53 | Issue Type + | Ma | Location * | WS | | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.53917 | 9° | 39.539179° | | | |
| пеш | | | | -121.70606 | o° | -121.706060 ° | | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51073 DS_ID:17169 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

FS Date: 11/30/2016 12:45:01 PM

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 New screwgate installed on the LS. WS appears to be in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54)]

 LM Start
 2.53
 Rating **
 A/W
 Issue No.
 916 (cont)

 LM End
 2.53
 Issue Type +
 Ma
 Location *
 WS

Photo 1 of 3: UCIP_SP_2017_51073_67075.jpg



Overview at levee crown looking south

Photo 2 of 3: UCIP_SP_2017_51073_67074.jpg



View of WS slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.53 | Rating ** | A/W | Issue No. | | 916 (cont) | |
|----------|--------------|-----------------|-----------|------------|-------|-------------|---|
| LM End | 2.53 | Issue Type + Ma | | Location * | | WS | |
| Category | Supplemental | | | GPS La | titud | e/Longitude | |
| Calegory | ry | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.53917 | '9 | 39.539179 | 0 |
| пеш | | | | -121.70606 | ° 0 | -121.706060 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51073 DS_ID:17169 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 New screwgate installed on the LS. WS appears to be in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 2.54)] FS Date: 11/30/2016 12:45:01 PM

Photo 3 of 3: UCIP_SP_2017_51073_67071.jpg



Headwall and flap gates (2) located on the WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.62 | Rating ** | М | Issue No. | | 917 | | | |
|----------|--------------|-----------------|------------|------------|------------------------|---------------|--|--|--|
| LM End | 2.62 | Issue Type + Ma | | Location * | | WS | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UCI | P LMA Respo | onsibility | 39.53786 | 4 ° | 39.537864 ° | | | |
| пеш | | | | -121.70619 | ° | -121.706190 ° | | | |
| DWR ID | | | | | | | | | |

Inspector Comment

Comment Code

FS_ID:51074 DS_ID:16402 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Sediment still blocking screw gate from fully closing. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully.7/01/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.5/29/2014 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.7/10/2013 Same as last inspection.4/19/2012 Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functionning (propped open). FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.63)] FS Date: 11/30/2016 12:47:26 PM

| LM Start | 2.62 | Rating ** | М | Issue No. | 917 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 2.62 | Issue Type + | Ma | Location * | WS |



Overview looking south from left levee

Photo 2 of 3: UCIP_SP_2017_51074_67076.jpg



Headwall and flap gate located on WS.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.62 | Rating ** | М | Issue No. | | 917 (cont) | |
|----------|--------------|--------------|------------|------------------------|-----|-------------|--|
| LM End | 2.62 | Issue Type + | Ma | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53786 | 4 ° | 39.537864 | |
| пеш | | | | -121.70619 | o° | -121.706190 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51074 DS_ID:16402 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Sediment still blocking screw gate from fully closing. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully.7/01/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.5/29/2014 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.7/10/2013 Same as last inspection.4/19/2012 Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functionning (propped open). FIELD STRUCT DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.63)] FS Date: 11/30/2016 12:47:26 PM



Headwall and screw gate located on LS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| | | | | | | | _ |
|----------|----------|--------------|-----------|------------|--------|-------------|---|
| LM Start | 2.63 | Rating ** | M | Issue No. | | 918 | |
| LM End | 2.63 | Issue Type + | Ma | Location * | | WS | |
| Category | Suppleme | ental | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5376 | 71 ° | 39.537671 | 0 |
| пеш | | | | -121.7062 | 10° | -121.706210 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51076 DS_ID:16403 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.4/19/2012 Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.65)]

FS Date: 11/30/2016 1:02:00 PM

| LM Start | 2.63 | Rating ** | М | Issue No. | 918 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 2.63 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51076_67087.jpg



Overview at levee crown looking south

Photo 2 of 3: UCIP_SP_2017_51076_67084.jpg



Headwall and flap gate located on WS

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.63 | Rating ** | М | Issue No. | | 918 (cont) | |
|----------|----------|--------------|------------|------------|------|--------------|---|
| LM End | 2.63 | Issue Type + | Ma | Location * | | WS | |
| Category | Suppleme | ental | | GPS La | ituc | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53767 | 1 ° | 39.537671 | 0 |
| Item | | | | -121.70621 | 0 ° | -121.706210 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51076 DS_ID:16403 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.4/19/2012 Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.65)]

FS Date: 11/30/2016 1:02:00 PM

Photo 3 of 3: UCIP_SP_2017_51076_67086.jpg



Headwall and screw gate located on the LS

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.65 | Rating ** | М | Issue No. | | 919 | |
|----------|--------------|--------------|------------|------------------------|-----|-------------|---|
| LM End | 2.65 | Issue Type + | Ма | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53746 | 66° | 39.537466 | 0 |
| пеш | | | | -121.70624 | 10° | -121.706240 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51078 DS_ID:16415 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS screw gate closed but partially buried. WS flapgate was half submerged for inspection. (DWR Sutter Yard- AFreitag)4/27/2016 Both gates were underwater for inspection.7/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close.5/29/2014 Same as last inspection.12/9/2013 Both gates were out of water and in good condition.7/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected.

FIELD STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.66)] FS Date: 11/30/2016 1:04:40 PM

| LM Start | 2.65 | Rating ** | М | Issue No. | 919 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 2.65 | Issue Type + | Ma | Location * | WS |



Overview looking south from left levee

Photo 2 of 3: UCIP_SP_2017_51078_67091.jpg



Headwall and flap gate located on WS.

Rating A: Acceptable : Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected

Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 2.65 | Rating ** | М | Issue No. | | 919 (cont) | |
|----------|----------|--------------|------------|------------|------|-------------|--|
| LM End | 2.65 | Issue Type + | Ma | Location * | WS | | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.53746 | 6° | 39.537466 | |
| пеш | | | | -121.70624 | o° | -121.706240 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51078 DS_ID:16415 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS screw gate closed but partially buried. WS flapgate was half submerged for inspection. (DWR Sutter Yard- AFreitag)4/27/2016 Both gates were underwater for inspection.7/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close.5/29/2014 Same as last inspection.12/9/2013 Both gates were out of water and in good condition.7/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected.

FIELD STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 2.66)] FS Date: 11/30/2016 1:04:40 PM

Photo 3 of 3: UCIP_SP_2017_51078_67092.jpg



WS headwall and flap gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.59 | Rating ** | М | Issue No. | Issue No. | | |
|----------|----------|--------------|-----------|------------|-----------|-------------|---|
| LM End | 3.59 | Issue Type + | Ma | Location * | | WS | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.52382 | 9° | 39.523829 | 0 |
| пеш | | | | -121.70629 | 0° | -121.706290 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51079 DS_ID:16405 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 appears abandoned. Both gates completely buried. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.7/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris.5/29/2014 Same as last inspection.12/9/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function.

7/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.4/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetationneed photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation.

FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.61)]

FS Date: 11/30/2016 1:05:02 PM

Photo 1 of 3: UCIP_SP_2017_51079_67094.jpg



Overview looking south from left levee

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.59 | Rating ** | М | Issue No. | | 920 (cont) | |
|----------|----------|--------------|-----------|------------|-------|-------------|---|
| LM End | 3.59 | Issue Type + | Ма | Location * | WS | | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.52382 | 29° | 39.523829 | ٥ |
| пеш | | | | -121.70629 | 90° | -121.706290 | ٥ |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51079 DS_ID:16405 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 appears abandoned. Both gates completely buried. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.7/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris.5/29/2014 Same as last inspection.12/9/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function.

7/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.4/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetationneed photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation.

FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.61)]

FS Date: 11/30/2016 1:05:02 PM

Photo 2 of 3: UCIP_SP_2017_51079_67095.jpg



Flap gate submerged in water on WS of levee

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.59 | Rating ** | М | Issue No. | | 920 (cont) | |
|----------|----------|--------------|------------|------------|------|-------------|---|
| LM End | 3.59 | Issue Type + | Ма | Location * | WS | | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.52382 | 9° | 39.523829 | 0 |
| пеш | | | | -121.70629 | o° | -121.706290 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51079 DS_ID:16405 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 appears abandoned. Both gates completely buried. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.7/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris.5/29/2014 Same as last inspection.12/9/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function.

7/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.4/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetationneed photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation.

FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519. June 1962 (HLM 3.61)]

Manual 519, June 1962 (HLM 3.61)] FS Date: 11/30/2016 1:05:02 PM

Photo 3 of 3: UCIP_SP_2017_51079_67096.jpg



View of flap gate submerged on WS toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.65 | Rating ** | A/W | Issue No. | | 921 | | |
|----------|--------------|---------------------------------|-----------|------------|------------------------|-------------|---|--|
| LM End | 3.65 | 3.65 Issue Type + Ma Location * | | Location * | | WS | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | | |
| Item | DWR UC | P LMA Respo | nsibility | 39.5235 | 56° | 39.523556 | 0 | |
| пеш | | | | -121.7053 | 40 ° | -121.705340 | 0 | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51080 DS_ID:16848 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition. New slide gate installed on LS.7/01/2015 Both gates were still submerged in water. Levee slopes were in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected.4/19/2012 Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.67)]

FS Date: 11/30/2016 1:06:54 PM

| LM Start | 3.65 | Rating ** | A/W | Issue No. | 921 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 3.65 | Issue Type + | Ma | Location * | WS |



Overview looking south on left levee

Photo 2 of 3: UCIP_SP_2017_51080_67103.jpg



Headwall and flap gate located on WS.

Location Rating Issue Type LS : Land Side Ma: Maintenance Deficiancy N/A: Not Applicable N: Not Inspected/Rated A : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.65 | Rating ** | A/W | Issue No. | | 921 (cont) | |
|----------|----------|--------------|-----------|------------|--------|-------------|---|
| LM End | 3.65 | Issue Type + | Ma | Location * | | WS | |
| Category | Suppleme | ental | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | P LMA Respo | nsibility | 39.5235 | 56° | 39.523556 | 0 |
| пеш | | | | -121.7053 | 40° | -121.705340 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51080 DS_ID:16848 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition. New slide gate installed on LS.7/01/2015 Both gates were still submerged in water. Levee slopes were in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected.4/19/2012 Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.67)]

FS Date: 11/30/2016 1:06:54 PM

Photo 3 of 3: UCIP_SP_2017_51080_67101.jpg



Headwall and screw gate located on LS.

| LM Start | 3.73 | Rating ** | U | Issue No. | | 86 | |
|----------|----------------------------------|--------------|-------|------------|------------------------|---------------|--|
| LM End | 3.76 | Issue Type + | Ma | Location * | LS | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | egory | | Start | | End | | |
| Item | Slope Sta | bility | | 39.52390 | 2 ° | 39.523992 ° | |
| пеш | | | | -121.70392 | 8 ° | -121.703418 ° | |
| DWR ID | DWR ID DWR_MA0013_02_s _ 2017_86 | | | | | | |

Comment Code

S1: Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping the levee.

Photo 1 of 1 : SP_2017_MA0013_301_86_20170508_00140.jpg



View of the erosion along the landside slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.83 | Rating ** | М | Issue No. | | 922 | | | | |
|----------|--------------|--------------|-------------------|-----------|------|------------------------|---|--|--|--|
| LM End | 3.83 | Issue Type + | Issue Type + Ma I | | | LS | | | | |
| Category | Supplemental | | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | | | |
| Item | DWR UC | P LMA Respo | onsibility | 39.5243 | 50° | 39.524350 | ٥ | | | |
| пеш | | | | | 80 ° | -121.702180 | ٥ | | | |
| DWR ID | | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51081 DS_ID:16847 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. It appears that this crossing does not require a slide gate. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition.7/01/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain.5/29/2014 Same as last inspection.12/9/2013 Pulled sticks from WS flap gate to allow it to close. Ls gate is still missing.7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks.4/19/2012 LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID#

USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.85)] FS Date: 11/30/2016 1:07:36 PM

| LM Start | 3.83 | Rating ** | М | Issue No. | 922 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 3.83 | Issue Type + | Ma | Location * | LS |



Overview looking south on left levee



Headwall and flap gate located on WS toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.83 | Rating ** | М | Issue No. | | 922 (cont) | |
|----------|--------------|--------------|-----------|------------|--------|-------------|---|
| LM End | 3.83 | Issue Type + | Ма | Location * | | LS | |
| Catagony | Supplemental | | | GPS La | atitud | e/Longitude | |
| Calegory | Category | | | | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5243 | 50° | 39.524350 | 0 |
| пеш | | | | -121.7021 | 80 ° | -121.702180 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51081 DS_ID:16847 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. It appears that this crossing does not require a slide gate. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition.7/01/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain.5/29/2014 Same as last inspection.12/9/2013 Pulled sticks from WS flap gate to allow it to close. Ls gate is still missing 7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks.4/19/2012 LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.85)] FS Date: 11/30/2016 1:07:36 PM

Photo 3 of 3: UCIP_SP_2017_51081_67110.jpg



View of channel at crossing looking D/S.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 3.85 | Rating ** | М | Issue No. | | 84 |
|----------|---------------------------------|--------------|-------|-------------|------|--------------|
| LM End | 3.85 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen L | GPS La | titud | e/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Slope Sta | bility | | 39.5245 | 03 ° | 39.524503 ° |
| пеш | | | | -121.7017 | 77 ° | -121.701777° |
| DWR ID | /R ID DWR_MA0013_02_s _ 2017_84 | | | | | |

Comment Code

S1: Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping levee.

Photo 1 of 1: SP_2017_MA0013_301_84_20170508_00141.jpg



View of the erosion along the landside slope.

Photo 1 of 1: SP_2017_MA0013_301_85_20170508_00142.jpg

| LM Start | 3.93 Rating ** M | | Issue No. | | 85 | |
|----------|-------------------------------|-----------------------|-----------|------------|-----|---------------|
| LM End | 3.93 | Issue Type + Ma | | Location * | | LS |
| Category | Earthen L | GPS Latitude/Longitud | | | | |
| Calegory | Calegory | | | | | End |
| Item | Slope Sta | bility | | 39.5252 | 42° | 39.525242 ° |
| пеш | | | | -121.7007 | 10° | -121.700710 ° |
| DWR ID | VR ID DWR MA0013 02 s 2017 85 | | | | | |

Comment Code

S1: Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping levee.

View of erosion along the landside slope.

| LM Start | 3.96 | Rating ** | М | Issue No. | | 87 | | |
|----------|---------------|----------------|-------|------------|------------------------|-------------|---|--|
| LM End | 4.04 | Issue Type + | Ma | Location * | | LS | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | | |
| Item | Slope Sta | bility | | 39.52566 | 0 ° | 39.526603 | 0 | |
| пеш | | | | -121.70032 | 2 ° | -121.699742 | 0 | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 7_87 | | | | | |

Comment Code

S1 : Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping levee.

Photo 1 of 1 : SP_2017_MA0013_301_87_20170508_00143.jpg



View of the erosion on the landside slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 4.04 | Rating ** | М | Issue No. | | 911 |
|-----------------------------------|--------------|--------------|---------|---------------|--------|-------------|
| LM End | 4.78 | Issue Type + | En | Location * | | WS |
| Category | Earthen L | evee | | GPS L | atitud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | Encroach | ments | | 39.5266 | 53° | 39.534091 |
| item | item | | | -121.699675 ° | | -121.690404 |
| DWR ID DWR_MA0013_02_s _ 2012_911 | | | | | | |
| | Comment Code | | | | | |
| DT : Ditch | | | | | | |
| | | | _ | | | |
| | | Inspecto | or Comm | nent | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



View of agricultural ditch along the toe.

| LM Start | 4.17 | Rating ** | М | Issue No. | | 923 |
|----------|----------|--------------|------------|------------|--------|---------------|
| LM End | 4.17 | Issue Type + | Ma | Location * | | WS |
| Category | Suppleme | ental | | GPS La | atitud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5282 | 10° | 39.528210° |
| item | | | | -121.6984 | 10° | -121.698410 ° |
| DWR ID | | | | | | · |

Comment Code

Inspector Comment

FS_ID:51082 DS_ID:16846 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Both pipe ends underwater for this inspection. (DWR Sutter Yard- AFreitag)4/27/2016 Both pipe ends were underwater for inspection.7/01/2015 Both pipe ends and gates were fully submerged.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. Both gates were fully submerged under water and unable to be inspected.4/19/2012 Rodent activity caused partial collapse on LS of levee in the vicinity of pipe. Limited inspection on WS slope due to dense vegetation. Limited inspection on gates due to both gates submerged under water.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. Concrete sump area with flash boards to drain farmers field is located on farmer's property near drain inlet. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 4.20)] FS Date: 11/30/2016 1:12:08 PM



Overview looking east on right bank of Cottonwood

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS : Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 4.17 | Rating ** | М | Issue No. | | 923 (cont) | | |
|-----------------------|--------|--------------|------------------------|------------------------|---------------|---------------|-----------------|--|
| LM End | 4.17 | Issue Type + | e Type + Ma Location * | | Ma Location * | | Ma Location * \ | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.52821 | 0° | 39.528210 ° | | |
| пеш | | | | -121.69841 | 0 ° | -121.698410 ° | | |
| DWR ID | | | | | | · | | |

Comment Code

Inspector Comment

FS_ID:51082 DS_ID:16846 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Both pipe ends underwater for this inspection. (DWR Sutter Yard- AFreitag)4/27/2016 Both pipe ends were underwater for inspection.7/01/2015 Both pipe ends and gates were fully submerged.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope is cleared of vegetation and is in good condition. Both gates were fully submerged under water and unable to be inspected.4/19/2012 Rodent activity caused partial collapse on LS of levee in the vicinity of pipe. Limited inspection on WS slope due to dense vegetation. Limited inspection on gates due to both gates submerged under water.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. Concrete sump area with flash boards to drain farmers field is located on farmer's property near drain inlet. [Additional Reference(s): DWR Levee Log., 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 4.20)] FS Date: 11/30/2016 1:12:08 PM

| LM Start | 4.17 | Rating ** | М | Issue No. | 923 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 4.17 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3: UCIP_SP_2017_51082_67116.jpg



Unable to determine condition of flap gate on WS due to high water.

Photo 3 of 3: UCIP_SP_2017_51082_67113.jpg



Overview of LS screw gate and concrete sump structure.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 4.65 | Rating ** | A/W | Issue No. | | 924 | |
|----------|--------------|--------------|------------|------------------------|------|--------------|--|
| LM End | 4.65 | Issue Type + | Ма | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | |
| Item | DWR UCI | P LMA Respo | onsibility | 39.53251 | 0° | 39.532510° | |
| пеш | | | | -121.69134 | ° Ol | -121.691340° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51083 DS_ID:16845 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 Crossing appears to be in good condition. No noticeable issues to report.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope has been cleared of vegetation and is in good condition.4/19/2012 Limited inspection due to dense vegetation on WS slope. Need photos of clear WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.69)]

FS Date: 11/30/2016 1:25:15 PM

| LM Start | 4.65 | Rating ** | A/W | Issue No. | 924 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 4.65 | Issue Type + | Ma | Location * | WS |



Overview looking east on right levee of Gold Run Creek (referred to Unit 2 of Cherokee Canal).

Photo 2 of 3: UCIP_SP_2017_51083_67122.jpg



Headwall and flap gate located on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 4.65 | Rating ** | A/W | Issue No. | | 924 (cont) | |
|----------|----------|--------------|------------|------------|-------|--------------|---|
| LM End | 4.65 | Issue Type + | Ma | Location * | | WS | |
| Category | Suppleme | ental | | GPS La | titud | le/Longitude | |
| Calegory | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.5325 | 10° | 39.532510 | ٥ |
| пеш | | | | -121.6913 | 40 ° | -121.691340 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51083 DS_ID:16845 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.7/01/2015 Crossing appears to be in good condition. No noticeable issues to report.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 WS slope has been cleared of vegetation and is in good condition.4/19/2012 Limited inspection due to dense vegetation on WS slope. Need photos of clear WS slope.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 4.69)]

FS Date: 11/30/2016 1:25:15 PM

Photo 3 of 3 : UCIP_SP_2017_51083_67123.jpg



View of channel at crossing.

| LM Start | 4.80 | Rating ** | М | Issue No. | 47 | |
|--------------|---------------------------|--------------|------------|------------|--------------|-------------|
| LM End | 5.01 | Issue Type + | Ма | Location * | LS | |
| Category | Catagoni Earthen Levee | | | | titud | e/Longitude |
| Calegory | | | Start | | End | |
| Item | Vegetatio | n | | 39.52692 | 24 ° | 39.526272 ° |
| пеш | | | -121.68480 |)2 ° | -121.688169° | |
| DWR ID | DWR_MA0013_02_f _ 2016_47 | | | | | |
| Comment Code | | | | | | |

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_301_47_20170315_00010.jpg



View of dense vegetation at the landside levee toe.

Rating
A: Acceptable
M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.01 | Rating ** | A/W | Issue No. | | 925 | |
|----------|----------|-------------------|------------|------------|------------------------|-------------|--|
| LM End | 5.01 | Issue Type + Ma I | | Location * | * LS | | |
| Category | Suppleme | upplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | Start | | End | | |
| Item | DWR UCI | P LMA Respo | onsibility | 39.52629 | 98° | 39.526298 | |
| пеш | | | | -121.68832 | 20° | -121.688320 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51084 DS_ID:16395 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. Pipe is a 30" cmp. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/19/2012 Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.06)]

FS Date: 11/30/2016 1:25:53 PM

| LM Start | 5.01 | Rating ** | A/W | Issue No. | 925 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 5.01 | Issue Type + | Ma | Location * | LS |



Overview looking west on the left levee of Cottonwood

Photo 2 of 3: UCIP_SP_2017_51084_67129.jpg



Headwall and flap gate located on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.01 | Rating ** | A/W | Issue No. | | 925 (cont) | |
|----------|----------|--------------|-----------|------------|--------|-------------|---|
| LM End | 5.01 | Issue Type + | Ма | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.5262 | 98° | 39.526298 | ٥ |
| пеш | | | | -121.6883 | 20° | -121.688320 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51084 DS_ID:16395 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. Pipe is a 30" cmp. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/19/2012 Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 5.06)] FS Date: 11/30/2016 1:25:53 PM

Photo 3 of 3: UCIP_SP_2017_51084_67126.jpg



View of channel at crossing.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.09 | Rating ** | A/W | Issue No. | | 926 |
|-----------------------|--------|--------------|-----------|------------|------|--------------|
| LM End | 5.09 | Issue Type + | Ма | Location * | | LS |
| Category Supplemental | | | | GPS Lat | itud | e/Longitude |
| Calegory | | | | | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.52691 | 7° | 39.526917° |
| пеш | | | | -121.68934 | 0° | -121.689340° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51087 DS_ID:16408 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. No apparent issues to report.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 WS and LS slopes have been cleared of vegetation and are in good condition. Slide gate on LS has been replaced.4/24/2012 Slide gate is damaged, needs to be replaced. Limited inspection on WS slope and toe due to dense vegetation. Need photos of clear WS slope and toe. This crossing was listed in the USACE Periodic Inspection report as Corp's inspection ID# USACE_CESPK_M13H_2011_p_0026 for broken gate on LS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.7 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both WS and LS ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.13)] FS Date: 11/30/2016 1:28:40 PM

| LM Start | 5.09 | Rating ** | A/W | Issue No. | 926 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 5.09 | Issue Type + | Ma | Location * | LS |



Overview of levee crown at crossing looking west.

Photo 2 of 3: UCIP SP 2017 51087 67140.jpg



Headwall and flap gate located on WS.

Location Rating Issue Type LS : Land Side Ma: Maintenance Deficiancy N/A: Not Applicable N: Not Inspected/Rated A : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.09 | 5.09 Rating ** A/W | | Issue No. | | 926 (cont) |
|----------|-------------------------------------|--------------------|-----------------|--------------|------|---------------|
| LM End | 5.09 | Issue Type + | Issue Type + Ma | | | LS |
| Category | Supplemental GPS Latitude/Longitude | | | le/Longitude | | |
| Calegory | | | Start | | End | |
| Item | DWR UCI | IP LMA Respo | onsibility | 39.5269 | 17° | 39.526917° |
| пеш | | | | -121.6893 | 40 ° | -121.689340 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51087 DS_ID:16408 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. No apparent issues to report.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 WS and LS slopes have been cleared of vegetation and are in good condition. Slide gate on LS has been replaced.4/24/2012 Slide gate is damaged, needs to be replaced. Limited inspection on WS slope and toe due to dense vegetation. Need photos of clear WS slope and toe. This crossing was listed in the USACE Periodic Inspection report as Corp's inspection ID# USACE_CESPK_M13H_2011_p_0026 for broken gate on LS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.7 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both WS and LS ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.13)] FS Date: 11/30/2016 1:28:40 PM

Photo 3 of 3: UCIP_SP_2017_51087_67141.jpg



Overview of LS floor is higher in elevation than pipe invert causing build up sediment.

| LM Start | 5.16 Rating ** M | | Issue No. | | 48 | | |
|----------|--------------------------------|--------------|-----------|------------|-------|--------------|---|
| LM End | 5.16 | Issue Type + | En | Location * | WS | | |
| Category | Earthen Levee | | | | titud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Encroachments | | | 39.5269 | 32° | 39.526932 | 0 |
| iteiii | item | | | -121.6906 | 85 ° | -121.690685 | 0 |
| DWR ID | R ID DWR_MA0013_02_s _ 2017_48 | | | | | | |

PR: Prunings

Inspector Comment

Comment Code

Remove the prunings from the landside slope.

Photo 1 of 1 : SP_2017_MA0013_301_48_20170508_00144.jpg



View of the prunings along the landside slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.29 | Rating ** | М | Issue No. | | 927 |
|-----------------------|--------|--------------|------------|------------------------|-----|---------------|
| LM End | 5.29 | Issue Type + | Ma | Location * | WS | |
| Category Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.52595 | 8 ° | 39.525958 ° |
| пеш | | | | -121.69273 | 0° | -121.692730 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51088 DS_ID:16409 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 There is a flapgate on the WS and a slide gate on the LS. The LS slide gate appears to be partially buried and blocked by vegetation. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used.6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 nonfunctional crossing due to overgrown vegetation on WS flap gate. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.34)] FS Date: 11/30/2016 1:30:53 PM

| LM Start | 5.29 | Rating ** | М | Issue No. | 927 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 5.29 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: UCIP_SP_2017_51088_67146.jpg



Overview of crossing looking downstream.

Photo 2 of 3: UCIP SP 2017 51088 67149.jpg



View of WS headwall with dense vegetation in channel.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.29 Rating ** | | М | Issue No. | Issue No. | |
|----------|----------------|--------------|-----------|------------|-----------|---------------|
| LM End | 5.29 | Issue Type + | Ма | Location * | WS | |
| Category | Suppleme | ental | | GPS Lati | tud | le/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.525958 | 3° | 39.525958 ° |
| пеш | | | | -121.69273 | ° | -121.692730 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51088 DS_ID:16409 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 There is a flapgate on the WS and a slide gate on the LS. The LS slide gate appears to be partially buried and blocked by vegetation. (DWR Sutter Yard- AFreitag)4/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used.6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 nonfunctional crossing due to overgrown vegetation on WS flap gate. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.34)] FS Date: 11/30/2016 1:30:53 PM

Photo 3 of 3: UCIP_SP_2017_51088_67148.jpg



Headwall and flap gate located on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.36 Rating ** M | | | Issue No. | | 928 | |
|-----------------------|----------------------|----------------------|--|------------------------|------|-------------|---|
| LM End | 5.36 | 5.36 Issue Type + En | | Location * | WS | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UCIP Field Study | | | 39.5253 | 61 ° | 39.525361 | 0 |
| пеш | | | | -121.6936 | 30° | -121.693630 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51089 DS_ID:16410 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Abandoned pipe. It is still present on both sides of the levee and capped on the WS. (DWR Sutter Yard-AFreitag)4/27/2016 Pipe appears abandoned. Should be removed.6/30/2015 Pipe still present with the cap on the waterside.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS.

FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterside (WS) end. Open on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.41)]

FS Date: 11/30/2016 1:33:28 PM

| LM Start | 5.36 | Rating ** | М | Issue No. | 928 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 5.36 | Issue Type + | En | Location * | WS |



Overview of site



Capped irrigation pipe located on water side of levee

| Location | |
|----------------|---------------------|
| LS: Land Side | N/A: Not Applicable |
| WS: Water Side | |
| CR · Crown | |

* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.36 | Rating ** | М | Issue No. | | 928 (cont) | |
|----------|------------------------|-----------|------------|-----------|------|-------------|---|
| LM End | 5.36 Issue Type + En | | Location * | | WS | | |
| Category | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UCIP Field Study | | | | 61 ° | 39.525361 | 0 |
| пеш | | | | -121.6936 | 30° | -121.693630 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51089 DS_ID:16410 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Abandoned pipe. It is still present on both sides of the levee and capped on the WS. (DWR Sutter Yard-AFreitag)4/27/2016 Pipe appears abandoned. Should be removed.6/30/2015 Pipe still present with the cap on the waterside.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS.

FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterside (WS) end. Open on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.41)]

FS Date: 11/30/2016 1:33:28 PM



View of LS toe.

| LM Start | 5.45 | Rating ** | М | Issue No. 88 | | |
|------------------------|---------------------------|--------------|--------|--------------|--------------|-------------|
| LM End | 5.47 | Issue Type + | Ma | Location * | LS | |
| Category Earthen Levee | | | GPS La | atitud | le/Longitude | |
| | | | Start | | End | |
| Item | Slope Sta | bility | | 39.5247 | 38° | 39.524588 |
| пеш | | | | -121.6951 | 35 ° | -121.695455 |
| DWR ID | DWR_MA0013_02_s _ 2017_88 | | | | | |
| Comment Code | | | | | | |

S1: Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood water over topping the levee.

Photo 1 of 1: SP_2017_MA0013_301_88_20170508_00145.jpg



View of erosion along the landside slope.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.63 | М | Issue No. | | 89 | | | |
|----------|----------------------|-----------------|-----------|------------|------------------------|-------------|--|--|
| LM End | 5.64 Issue Type + Ma | | | Location * | | LS | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | alegory | | | Start | | End | | |
| Item | Slope Sta | Slope Stability | | | 57° | 39.524327 | | |
| пеш | | | | -121.6983 | 60° | -121.698687 | | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 7_89 | | | | | |

Comment Code

S1: Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping levee.

Photo 1 of 1: SP_2017_MA0013_301_89_20170508_00146.jpg



View of erosion along the landside slope.

Photo 1 of 1: SP_2017_MA0013_301_90_20170508_00147.jpg

| LM Start | 5.69 | Rating ** | М | Issue No. | | 90 | | |
|------------------------|-----------|----------------|------|------------------------|------|-------------|--|--|
| LM End | 5.76 | Issue Type + | Ma | Location * | | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Slope Sta | bility | | 39.5240 | 33° | 39.523517 | | |
| пеш | | | | -121.6994 | 42 ° | -121.700517 | | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 7_90 | | | | | |

Comment Code

S1 : Repair slope instability.

Inspector Comment

Repair the erosion along the landside slope caused by flood waters over topping levee.

and the same of th



View of the erosion along the landside slope.

| LM Start | 5.71 | Rating ** | М | Issue No. | | 49 |
|----------|-----------|------------------------|------|------------|-----|-------------|
| LM End | 5.71 | Issue Type + | Ма | Location * | | WS |
| Category | evee | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | Erosion / | Bank Caving | | 39.52380 | 3° | 39.523803 |
| пеш | | | | -121.69980 | 4 ° | -121.699804 |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_49 | | | |

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

1' by 2' by 4' hole in the levee toe that appears to be a temporary pump intake.

Photo 1 of 1: SP_2017_MA0013_301_49_20170315_00011.jpg



View of the man made hole at the waterside levee toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 5.80 | Rating ** | М | Issue No. | | 929 | |
|----------|------------------------|-----------|------------|-----------|------|-------------|---|
| LM End | 5.80 Issue Type + En | | Location * | | WS | | |
| Category | GPS Latitude/Longitude | | | | | | |
| Calegory | | | Start | | End | | |
| Item | DWR UCIP Field Study | | | 39.5233 | 81 ° | 39.523381 | 0 |
| пеш | | | | -121.7012 | 70° | -121.701270 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51090 DS_ID:16411 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS slide gate still missing. Both pipe ends were submerged during inspection. (DWR Sutter Yard-AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)4/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard afreitag)6/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (DWR Sutter Yard - omagana)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.85)]

FS Date: 11/30/2016 1:36:49 PM



Overview looking south

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| | 1 | | | | | | _ |
|----------|------------------------|--------------|----|------------|------|-------------|---|
| LM Start | 5.80 | Rating ** | М | Issue No. | | 929 (cont) | |
| LM End | 5.80 | Issue Type + | En | Location * | WS | | |
| Category | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UCIP Field Study | | | | 81 ° | 39.523381 | 0 |
| пеш | | | | -121.7012 | 70° | -121.701270 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51090 DS_ID:16411 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS slide gate still missing. Both pipe ends were submerged during inspection. (DWR Sutter Yard-AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)4/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard afreitag)6/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (DWR Sutter Yard - omagana)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.85)]

FS Date: 11/30/2016 1:36:49 PM

Photo 2 of 3: UCIP_SP_2017_51090_67157.jpg



Headwall and flap gate on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| | 1 | | | | | | _ |
|----------|--------------|----------------|----|------------------------|------|-------------|---|
| LM Start | 5.80 | Rating ** | М | Issue No. | | 929 (cont) | |
| LM End | 5.80 | Issue Type + | En | Location * | WS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | gory | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.5233 | 81 ° | 39.523381 | 0 |
| пеш | | | | -121.7012 | 70° | -121.701270 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51090 DS_ID:16411 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 LS slide gate still missing. Both pipe ends were submerged during inspection. (DWR Sutter Yard-AFreitag)9/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--flap gate on WS is present only LS gate missing. (DWR UCIP - omagana)4/27/2016 Both sides of pipe were underwater. Appears that LS gate is still missing. (DWR Sutter Yard afreitag)6/30/2015 Slide gate still missing on the LS. WS appears to be in good condition. (DWR Sutter Yard - afreitag)5/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/9/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/09/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Slide gate missing on LS. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0017 for missing slide gate. (DWR Sutter Yard - omagana)

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls located on both WS and LS toes. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.85)]

FS Date: 11/30/2016 1:36:49 PM

Photo 3 of 3: UCIP_SP_2017_51090_67156.jpg



Headwall and damaged/missing screw gate on LS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 6.12 | Rating ** | М | Issue No. | | 55 | |
|--|----------|------------------------|----|------------|-----|--------------|--|
| LM End | 6.12 | Issue Type + | Ma | Location * | | LS | |
| Category Earthen Levee | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | |
| Item | Encroach | ments | | 39.5216 | 34° | 39.521634° | |
| пеш | | | | -121.7061 | 84° | -121.706184° | |
| DWR ID DWR_MA0013_02_s _ 2014_55 | | | | | | | |
| Comment Code | | | | | | | |
| TR : Tree or limb | | | | | | | |
| Inspector Comment | | | | | | | |
| Remove the tree limbs from the landside slope. | | | | | | | |
| ' | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of the tree limbs on the landside slope and toe.

| LM Start | 6.18 | Rating ** | М | Issue No. | | 12 | |
|----------------------------------|----------|--------------|------------------------|----------------------|-----|-------------|--|
| LM End | 7.54 | Issue Type + | En | Location * | | LS | |
| Category | evee | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Encroach | ments | | 39.5208 | 43° | 39.502958 ° | |
| item | | | | -121.706345° -121.71 | | | |
| DWR ID DWR_MA0013_02_s _ 2012_12 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| DT : Ditch | | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of the agricultural ditch along the toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 7.18 | Rating ** | М | Issue No. | | 930 | | |
|----------|--------------|----------------|-------|------------------------|-----|-------------|--|--|
| LM End | 7.18 | Issue Type + | En | Location * | LS | | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Category | | Start | | End | | | |
| Item | DWR UC | IP Field Study | | 39.50757 | 0 ° | 39.507570 | | |
| пеш | | | | -121.71387 | 0 ° | -121.713870 | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51097 DS_ID:17518 EP_NO: 5200B

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 11/18/2016 Unable to locate. (DWR Sutter Yard-AFreitag)4/27/2016 Unable to locate.6/30/2015 Unable to locate.5/29/2014 Same as last inspection.12/9/2013 Unable to locate.7/09/2013 Same as last inspection. Unable to

locate.//09/2013 Same as last inspection. Unable to locate.4/24/2012 Not found - Need to verify if there are any signs of the structure during next inspection when slopes are cleared. If not will need to coordinate with applicant regarding the fate of this structure. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee embankment, unknown depth below the crown. (Permit No. 5200B, 1967 - Richvale Irrigation District) Additional permits

related to this structure include Permit No. 5200 and 5200A.

FS Date: 11/30/2016 1:58:53 PM

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 8.30 | Rating ** | М | Issue No. | | 931 |
|--------------|----------------------|--------------|-----------|------------------------|---------------|------------|
| LM End | 8.30 | Issue Type + | En | Location * | | LS |
| Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | Category | | | | | End |
| Item | DWR UCIP Field Study | | | 39.4938 | 50° | 39.493850° |
| пеш | | | -121.7247 | 80° | -121.724780 ° | |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51098 DS_ID:16413 EP_NO: 14704

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition. Unusre on the permit issues below.11/4/2014 (DWR-Olivia Magana) Need to contact owner to determine whether both communication are still active and same alignment? permit 14704 (LM 8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No Action Needed to Non-Urgent.5/29/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to verify whether this crossing includes both communication cable lines under permit 14704 (LM 8.38) and 10589 (see LM 8.39). FIELD_STRUCT_DESC: Steel fiber optic cable through the levee, approximately 3.5 feet below the crown. The cable section across the channel is attached to the Cherokee Canal Dridge. (Permit No. 14704, 1987 - Sprint) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/30/2016 1:59:55 PM

| LM Start | 8.30 | Rating ** | М | Issue No. | 931 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 8.30 | Issue Type + | En | Location * | LS |



Buried cable box located on the LS edge.



WS view cable line attached to highway bridge.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 8.30 | Rating ** | М | Issue No. | | 932 | |
|----------|--------|----------------|-----------|------------------------|-------------|-----------|---|
| LM End | 8.30 | Issue Type + | En | Location * | | LS | |
| Category | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.4937 | 80° | 39.493780 | 0 |
| nem | | | -121.7248 | 40 ° | -121.724840 | 0 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51099 DS_ID:16404 EP_NO: 10589A Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears in good condition. Unsure on the permit issues listed below.11/4/2014 (DWR-Olivia Magana) Need to contact owner to determine whether both communication are still active and same alignment? permit 14704 (LM 8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No Action Needed to Non-Urgent.5/29/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to verify whether this crossing includes both communication cable lines under permit 14704 (LM 8.38) and 10589 (see LM 8.39).

FIELD_STRUCT_DESC: 4-inch steel communication pipe, contains three telephone cables, through the levee, approximately 4 feet below the crown. The cable through the channel is buried approximately 5 feet deep. (Permit No. 10589, 1987 - Pacific Telephone and Telegraph Company [PT&T]) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 11/30/2016 2:00:19 PM

| LM Start | 8.30 | Rating ** | М | Issue No. | 932 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 8.30 | Issue Type + | En | Location * | LS |



Buried cable box located on the landside edge.



Waterside view of utility line alignment through levee then attached to bridge.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.56 | Rating ** | A/W | Issue No. | | 933 |
|----------|--------|-----------------------------|-----|------------------------|-----|---------------|
| LM End | 9.56 | Issue Type + | Ма | Location * | | LS |
| Category | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | DWR UCIP LMA Responsibility | | | 38° | 39.477438° |
| пеш | em | | | -121.7352 | 00° | -121.735200 ° |
| DWR ID | | | | | | · |

Comment Code

Inspector Comment

FS_ID:51103 DS_ID:16838 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crosing looked in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.4/24/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate.7/9/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Crossing drains into Cherokee Canal and is part of the Richvale Irrigation District siphon structure. Slide gate is located on the landside (LS). Flap gate is located on the waterside (WS). Crossing angles to the southwest to a flap gate and headwall located about 60 feet from WS toe. [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66)]

FS Date: 11/30/2016 2:07:49 PM

| LM Start | 9.56 | Rating ** | A/W | Issue No. | 933 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 9.56 | Issue Type + | Ma | Location * | LS |



Overview of levee crown at crossing looking D/S.



View of crossing looking from channel towards WS levee.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.56 | Rating ** | A/W | Issue No. | | 933 (cont) |
|----------|--------------|--------------|-----------|------------|-------|-------------|
| LM End | 9.56 | Issue Type + | Ма | Location * | | LS |
| Category | Supplemental | | | | titud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.47743 | 38° | 39.477438 |
| пеш | | | | -121.73520 | 00° | -121.735200 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51103 DS_ID:16838 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crosing looked in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.4/24/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate.7/9/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Crossing drains into Cherokee Canal and is part of the Richvale Irrigation District siphon structure. Slide gate is located on the landside (LS). Flap gate is located on the waterside (WS). Crossing angles to the southwest to a flap gate and headwall located about 60 feet from WS toe. [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66)]

FS Date: 11/30/2016 2:07:49 PM



WS view-access well located 60 feet from WS toe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.57 | Rating ** | A/W | Issue No. | | 934 | |
|-----------------------|--------|--------------|-----------|------------|-------------|-------------|---|
| LM End | 9.57 | Issue Type + | Ma | Location * | | LS | |
| Category Supplemental | | | GPS La | titud | e/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.47733 | 35 ° | 39.477335 | 0 |
| пеш | | | | -121.73534 | ° 04 | -121.735340 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51104 DS_ID:16839 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 WS flapgate is silted over and unable to open. Needs to be dug out.5/28/2014 Same as last inspection.12/4/2013 Slopes were cleared of vegetation and are in good condition.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of WS and LS slopes during next inspection with clearned slopes.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Flapgate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.68)]

FS Date: 11/30/2016 2:09:17 PM

| LM Start | 9.57 | Rating ** | A/W | Issue No. | 934 (cont) |
|----------|------|--------------|-----|------------|------------|
| LM End | 9.57 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51104_67289.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 1 of 2)

Photo 2 of 3: UCIP_SP_2017_51104_67287.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 2 of 2)

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.57 | Rating ** | A/W | Issue No. | | 934 (cont) |
|-----------------------|--------|--------------|------------------|------------|-------------|---------------|
| LM End | 9.57 | Issue Type + | Type + Ma Locati | | Location * | |
| Category Supplemental | | | GPS Lat | itud | e/Longitude | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.47733 | 5 ° | 39.477335 ° |
| пеш | | | | -121.73534 | o° | -121.735340 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51104 DS_ID:16839 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 WS flapgate is silted over and unable to open. Needs to be dug out.5/28/2014 Same as last inspection.12/4/2013 Slopes were cleared of vegetation and are in good condition.7/09/2013 Same as last inspection.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of WS and LS slopes during next inspection with clearned slopes.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Flapgate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.68)]

FS Date: 11/30/2016 2:09:17 PM

Photo 3 of 3: UCIP_SP_2017_51104_67286.jpg



View of crossing from LS. Dense vegetation along LS slope limited visual inspection. (LS Photo 1 of 2)

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.66 | Rating ** | M | Issue No. | | 935 |
|--------------|--------|---------------|----|------------------------|-----|---------------|
| LM End | 9.66 | Issue Type + | En | Location * | | LS |
| Supplemental | | | | GPS Latitude/Longitude | | |
| Category | | | | Start | | End |
| Itom | DWR UC | P Field Study | | 39.4762 | 60° | 39.476260° |
| item | Item | | | | 30° | -121.736230 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51106 DS_ID:18912 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. Another marker was found/photographed near the LS toe. Crossing also appears to cross through the Unit1 levee around CLM8.860. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.

FIELD_STRUCT_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012. FS Date: 11/30/2016 2:11:06 PM

| LM Start | 9.66 | Rating ** | М | Issue No. | 935 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 9.66 | Issue Type + | En | Location * | LS |



Overview of levee crown at crossing



Marker for buried fiber optic cable on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.66 | Rating ** | М | Issue No. | | 935 (cont) |
|----------|----------|----------------|------------|------------|-------------|-------------|
| LM End | 9.66 | Issue Type + | En | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | | 39.47626 | o° | 39.476260 |
| пеш | | | -121.73623 | o° | -121.736230 | |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51106 DS_ID:18912 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. Another marker was found/photographed near the LS toe. Crossing also appears to cross through the Unit1 levee around CLM8.860. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing is in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.

FIELD_STRUCT_DESC: Buried communication line of unknown material through the levee at an unknown depth below the crown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601 as indicated by marker. (Qwest Communication) No permit has been identified since crossing was field discovered in 2012.

FS Date: 11/30/2016 2:11:06 PM

Photo 3 of 3: UCIP_SP_2017_51106_67290.jpg



Marker for buried fiber optic cable on LS with contact information.

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.67 | Rating ** | М | Issue No. | | Issue No. | | 936 |
|----------|--------|------------------------|----|------------|-----|---------------|--|-----|
| LM End | 9.67 | Issue Type + | En | Location * | | LS | | |
| Category | ental | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.4761 | 40° | 39.476140 ° | | |
| item | item | | | | 90° | -121.736390 ° | | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51107 DS_ID:18913 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. But still unknown if this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/9/2013 Same as last inspection.4/24/2012 Authorized/unauthorized encroachment? Contact Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com for additional info. Inquiries pertaining to inspeciton submit to pipelineinquiries@kindermorgan.com and reference as Engr Station 3173+48 plus include coordinates. FIELD_STRUCT_DESC: 8-inch high pressure line bored through through the levee at depth unknown. Kinder Morgan is the owner of line--contact information is 213.624-9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. No permit has been identified since crossing was field discovered in 2012. FS Date: 11/30/2016 2:14:24 PM

| LM Start | 9.67 | Rating ** | М | Issue No. | 936 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 9.67 | Issue Type + | En | Location * | LS |



Overview of levee crown at crossing.

Photo 2 of 3: UCIP_SP_2017_51107_67294.jpg



WS marker with utility contact information.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.67 | Rating ** | М | Issue No. | | 936 (cont) | |
|-----------------------|--------|----------------|-------|------------------------|------|--------------|--|
| LM End | 9.67 | Issue Type + | En | Location * | | LS | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.4761 | 40° | 39.476140° | |
| пеш | | | | -121.7363 | 90 ° | -121.736390° | |
| DWR ID | | | | | | · | |

Comment Code

Inspector Comment

FS_ID:51107 DS_ID:18913 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

FS Date: 11/30/2016 2:14:24 PM

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. But still unknown if this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/9/2013 Same as last inspection.4/24/2012 Authorized/unauthorized encroachment? Contact Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com for additional info. Inquiries pertaining to inspeciton submit to pipelineinquiries@kindermorgan.com and reference as Engr Station 3173+48 plus include coordinates. FIELD_STRUCT_DESC: 8-inch high pressure line bored through through the levee at depth unknown. Kinder Morgan is the owner of line--contact information is 213.624-9461 or Chico Local Area Manager, Frank Villalovos 530.342.6140 (o) or 530.624.4048 (c) or email villalovosf@kindermorgan.com. Additional contact is Ken Yeo, Sacramento Local Area Manager, at 916.416.7938 or by email yeok@kindermorgan.com. Frank Villalovos is the primary contact for this crossing. No permit has been identified since crossing was field discovered in 2012.



View of LS slope and marker.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.69 | Rating ** | М | Issue No. | | 937 | | |
|-----------------------|---------|----------------|----|------------------------|-----|-------------|---|--|
| LM End | 9.69 | Issue Type + | En | Location * | | LS | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UCI | IP Field Study | | 39.4759 | 60° | 39.475960 | 0 | |
| пеш | | | | -121.7365 | 40° | -121.736540 | 0 | |
| DWR ID | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51108 DS_ID:18914 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. It is still unknown wheter this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.

FIELD_STRUCT_DESC: Underground communication cable through the levee, depth unknown below the crown. Owner of encroachment is Pacific Telephone. No permit has been identified since crossing was field discovered in 2012.

FS Date: 11/30/2016 2:15:27 PM

| LM Start | 9.69 | Rating ** | М | Issue No. | 937 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 9.69 | Issue Type + | En | Location * | LS |



Overview of levee crown at crossing



Marker located on LS.

Location Rating Issue Type LS : Land Side Ma: Maintenance Deficiancy N/A: Not Applicable N: Not Inspected/Rated : Acceptable WS: Water Side Minimally Acceptable Ob: Design & System Obsolescence C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

MA0013

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.69 | Rating ** | М | Issue No. | | 937 (cont) |
|----------|----------|----------------|----|------------|-----|-------------|
| LM End | 9.69 | Issue Type + | En | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | | 39.47596 | o° | 39.475960 |
| пеш | | | | -121.73654 | o° | -121.736540 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51108 DS_ID:18914 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/27/2016 Crossing appears to be in good condition.6/30/2015 Crossing appears to be in good condition. It is still unknown wheter this crossing was authorized or unauthorized.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/09/2013 Same as last inspection.4/24/2012 Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.

FIELD_STRUCT_DESC: Underground communication cable through the levee, depth unknown below the crown. Owner of encroachment is Pacific Telephone. No permit has been identified since crossing was field discovered in 2012.

FS Date: 11/30/2016 2:15:27 PM

Photo 3 of 3: UCIP_SP_2017_51108_67298.jpg



Underground cable marker with contact information.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 9.88 | Rating ** | М | Issue No. | | 938 |
|----------|----------|----------------|----|------------|-----|--------------|
| LM End | 9.88 | Issue Type + | En | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | tud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | | 39.47341 | o° | 39.473410° |
| пеш | | | | -121.73819 | o° | -121.738190° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51109 DS_ID:17731 EP_NO: 16994

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 11/18/2016 Unable to locate. (DWR Sutter Yard-AFreitag)4/27/2016 Unable to locate.6/30/2015 Unable to locate.5/28/2014 Same as last inspection.12/4/2013 Unable to locate.7/09/2013 Same as last inspection. Unable to locate any signs of this crossing.4/24/2012 Unable to find any indicators for this crossing. It appears that this encroachment was not built. Check again during next inspection.

FIELD_STRUCT_DESC: 10-inch high-density polyethylene (HDPE) communication conduit through the levee, unknown depth below the crown. Conduit contains fiber-optic cables that goes across and under (bored) Cherokee Canal and its levees. Twelve inner ducts through casing with hand holes placed at each end for initial and future installation of fiber optic telecommunications cable. (Permit No. 16994, 2000 - Level 3 Comm)

FS Date: 11/30/2016 2:15:57 PM

Photo 1 of 1 : SP_2017_MA0013_301_13_20170315_00005.jpg

No Photos

| - | | | | |
|--|--|--|--|---|
| | | Contract of the last of the la | The same of the sa | 100 100 100 100 100 100 100 100 100 100 |
| The same of the sa | The state of the s | | | |
| | | No. of Concession, | | |
| | | | 11. 16. 16 15 15 | |
| | | | ASU | A November |
| | | | PALES OF THE PARENT OF THE PAR | THE RESERVE |
| | | | | |
| | 7366an | | | |
| | | | | |
| 100 | | | | |
| | | | | |
| | | | | |
| | | FEBRUARY AND | | |
| State of the state | | | P. Washington | |
| | TO COMPANY OF THE PARK OF THE | | NAME OF THE OWNER, OWNER, OWNER, OWNER, | A STATE OF THE REAL PROPERTY. |

View of the agricultural ditch along the toe.

| LM Start | 10.03 | Rating ** | М | Issue No. | | 13 | | |
|------------|----------------------------------|--------------|----------|---------------|--------|---------------|--|--|
| LM End | 10.52 | Issue Type + | En | Location * | LS | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Calegory | | | Start | | End | | | |
| Item | ltem Encroachments | | | 39.4715 | 17° | 39.465113° | | |
| item | | | | -121.739433 ° | | -121.743592 ° | | |
| DWR ID | DWR ID DWR_MA0013_02_s _ 2012_13 | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

CR: Crown

* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 10.56 | Rating ** | М | Issue No. | | 939 | |
|-----------------------|--------|----------------|----|------------------------|----|-------------|--|
| LM End | 10.56 | Issue Type + | En | Location * | | LS | |
| Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.46459 | o° | 39.464590 | |
| item | | | | -121.743910 | o° | -121.743910 | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51111 DS_ID:16472 EP_NO: 10939

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/17/2016 Pole still present within channel. (DWR Sutter Yard- AFreitag)4/26/2016 Pole within the channel not removed per permit description.6/30/2015 same as last inspection.5/28/2014 Same as last inspection.12/4/2013 Same as last

inspection.7/08/2013 Same as last inspection.4/24/2012 According to permit the existing pole and buried cable in the overflow area were to be removed. Pole is present in the channel.

FIELD_STRUCT_DESC: Reroute a buried wire across the left bank levee of Cherokee Canal at State Highway 162 Bridge abutment from that point to the downstream side of the bridge. From there the wire extends to the gaging station at the center of the bridge. The facility maintains service to the Department of Water Resources' Metering Station midspan of the bridge. (Permit No. 10939, 1976 - Pacific Telephone and Telegraph Company [PT&T])

Telephone and Telegraph Company [F

FS Date: 11/30/2016 2:17:49 PM

| Photo 1 of 1 | : UCIP_SP | _2017_51111 | _67334.jpg |
|--------------|-----------|-------------|------------|
| | | | |



Pole within the channel was not removed.

| LM Start | 10.59 | Rating ** | М | Issue No. | | 18 | | |
|------------------------|---------------|----------------|------------------------|------------|---------------|------------|--|--|
| LM End | 11.66 | Issue Type + | En | Location * | | LS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | | |
| Item | Encroachments | | | 39.4643 | 05° | 39.450333° | | |
| item | | | -121.744172 ° | | -121.753157 ° | | | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 12_18 | | | | | |
| Comment Code | | | | | | | | |
| DT : Ditch | | | | | | | | |

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_301_18_20170315_00006.jpg



View of the agricultural ditch along the toe.

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicat | e A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 10.98 | Rating ** | Α | Issue No. | | 91 | | |
|--------------------------|-------------|---------------------------|-----------|---------------|-------------|---------------|--|--|
| LM End | 10.98 | Issue Type + | Ма | Location * | | LS | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Calegory | | | Start | | End | | | |
| Vegetation | | | 39.4592 | 237° | 39.459237 ° | | | |
| пеш | | | | -121.747393 ° | | -121.747393 ° | | |
| DWR ID | DWR_MA0 | DWR_MA0013_02_s _ 2017_91 | | | | | | |
| | | Comn | nent Cod | le | | | | |
| V1 : Contro easements | | grass and wee | eds on th | e levee slo | pes a | and | | |
| | | Inspecto | or Comm | nent | | | | |
| There is no | ative grass | es on both slo | opes. | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of native grasses on both slopes.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 12.88 | Rating ** | М | Issue No. | | Issue No. | | 940 | | | | |
|-----------------------|-----------------------------|--------------|----|------------------------|------|--------------|--|------------|--|---------------|--|----|
| LM End | 12.88 | Issue Type + | Ма | Location * | | Location * | | Location * | | Ma Location * | | LS |
| Category Supplemental | | | | GPS Latitude/Longitude | | | | | | | | |
| Calegory | | | | Start | | End | | | | | | |
| Itom | DWR UCIP LMA Responsibility | | | 39.4347 | 79° | 39.434779° | | | | | | |
| Item | | | | -121.7639 | 40 ° | -121.763940° | | | | | | |
| DWR ID | | | | | | · | | | | | | |

Inspector Comment

Comment Code

FS ID:51112 DS_ID:16385 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 WS still heavily vegetated and cannot access the WS pipe end for inspection. Vegetation needs to be cleared back. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back.6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.4/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 13.03)] FS Date: 11/30/2016 2:18:56 PM



Overview of crossing looking downstream at the left bank of Cherokee Canal.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 12.88 | Rating ** | М | Issue No. | | 940 (cont) | |
|-----------------------|--------|-----------------|------------------------|------------|----|-------------|---|
| LM End | 12.88 | Issue Type + Ma | | Location * | | LS | |
| Category Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.43477 | 9° | 39.434779 | 0 |
| пеш | | | | -121.76394 | 0° | -121.763940 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51112 DS_ID:16385 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 WS still heavily vegetated and cannot access the WS pipe end for inspection. Vegetation needs to be cleared back. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back.6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.4/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 13.03)] FS Date: 11/30/2016 2:18:56 PM

Photo 2 of 3: UCIP_SP_2017_51112_67337.jpg



Stand pipe with screw gate WS

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 12.88 | Rating ** | М | Issue No. | | 940 (cont) | | | |
|-----------------------|---------|--------------|-----------------------------------|-------------|----|------------|---|-------------|--|
| LM End | 12.88 | Issue Type + | Ма | Location * | | LS | | | |
| Category Supplemental | | | Supplemental GPS Latitude/Longitu | | | | | e/Longitude | |
| Calegory | llegory | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.43477 | 9° | 39.434779 | 0 | | |
| item | | -121.76394 | ° | -121.763940 | 0 | | | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51112 DS_ID:16385 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 WS still heavily vegetated and cannot access the WS pipe end for inspection. Vegetation needs to be cleared back. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back.6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.4/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 13.03)] FS Date: 11/30/2016 2:18:56 PM

Photo 3 of 3: UCIP_SP_2017_51112_67335.jpg



View of the inside of the WS stand pipe. No obstructions blocking slide gate.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 13.40 | Rating ** | М | Issue No. | | 19 | | |
|----------------------------------|-------|--------------|----------|------------|--------------|---------------|--|--|
| LM End | 16.00 | Issue Type + | En | Location * | | LS | | |
| Category Earthen Levee | | | GPS La | atituc | le/Longitude | | | |
| Calegory | | | | Start | | End | | |
| ltem Encroachments | | | 39.4281 | 92° | 39.414202° | | | |
| -121.768443 | | | | | 43° | -121.781863 ° | | |
| DWR ID DWR_MA0013_02_s _ 2012_19 | | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | • | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of the agricultural ditch along the toe.

| LM Start | 15.37 | Rating ** | M | Issue No. | | 60 | | |
|----------------------------------|------------|--------------|----|------------------------|-----|---------------|--|--|
| LM End | 15.37 | Issue Type + | Ma | Location * | | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Vegetation | | | 39.4199 | 57° | 39.419957 ° | | |
| пеш | | | | -121.7727 | 00° | -121.772700 ° | | |
| DWR ID DWR_MA0013_02_f _ 2016_60 | | | | | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Tules on the landside toe.

Photo 1 of 1: SP_2017_MA0013_301_60_20170315_00017.jpg



View of dense tules along the landside toe.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 15.44 | Rating ** | М | Issue No. | | 941 |
|----------|--------------|--------------|--------------|------------|-------|---------------|
| LM End | 15.44 | Issue Type + | ue Type + Ma | | | LS |
| Category | Supplemental | | | GPS La | titud | le/Longitude |
| Calegory | Calegory | | | | | End |
| Item | DWR UC | IP LMA Respo | nsibility | 39.41920 | 9° | 39.419209° |
| пеш | | | | -121.77368 | ° 0 | -121.773680 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51132 DS_ID:16376 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard- AFreitag)4/26/2016 LS inlet appears to be buried as could not locate it. Ws flap gate was bolted shut. This appears to be an abandoned crossing.6/30/2015 Still unable to locate the LS pipe end. 5/28/2014 Same as last inspection.12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded.7/08/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unbale to locate LS headwall.4/24/2012 Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#

USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by vegetation.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 15.62)] FS Date: 12/2/2016 9:21:06 AM



Overview of crossing looking downstream at the left bank of Cherokee Canal.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 15.44 | Rating ** | М | Issue No. | | 941 (cont) | | | |
|----------|-----------------------|--------------|------------|------------|--------|--------------|---|----|--|
| LM End | 15.44 | Issue Type + | Ма | Location * | | a Location * | | LS | |
| Catagony | Category Supplemental | | | GPS La | atitud | e/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.4192 | 09° | 39.419209 | 0 | | |
| пеш | item | | | -121.7736 | 80° | -121.773680 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51132 DS_ID:16376 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard- AFreitag)4/26/2016 LS inlet appears to be buried as could not locate it. Ws flap gate was bolted shut. This appears to be an abandoned crossing.6/30/2015 Still unable to locate the LS pipe end. 5/28/2014 Same as last inspection.12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded.7/08/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unbale to locate LS headwall.4/24/2012 Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by

vegetation.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 519, June 1962 (HLM 15.62)] FS Date: 12/2/2016 9:21:06 AM

| LM Start | 15.44 | Rating ** | М | Issue No. | 941 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 15.44 | Issue Type + | Ma | Location * | LS |



Dense vegetation covering the majority of the WS. WS headwall difficult to see through dense vegetation.



View of WS headwall and flap gate.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 15.68 | Rating ** | М | Issue No. | | 942 | |
|----------|--------------|----------------------------|----|------------------------|-----|---------------|--|
| LM End | 15.68 | Issue Type + | Ma | Location * | LS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | WR UCIP LMA Responsibility | | 39.417043° | | 39.417043 ° | |
| пеш | | | | -121.7772 | 40° | -121.777240 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51133 DS_ID:16382 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard- AFreitag)4/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.87)] FS Date: 12/2/2016 9:25:24 AM

| LM Start | 15.68 | Rating ** | М | Issue No. | 942 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 15.68 | Issue Type + | Ma | Location * | LS |



Overview of crossing looking downstream of the left bank of Cherokee



View of WS slope. Limited inspection due to the dense vegetation.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 15.68 | Rating ** | М | Issue No. | | 942 (cont) | |
|----------|----------|--------------|-----------|------------|------|--------------|--|
| LM End | 15.68 | Issue Type + | Ма | Location * | LS | | |
| Category | Suppleme | ental | | GPS Lat | itud | e/Longitude | |
| Calegory | Category | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.41704 | 3° | 39.417043° | |
| пеш | | | | -121.77724 | o° | -121.777240° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51133 DS_ID:16382 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard- AFreitag)4/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 LS headwall buried. Limited inspection of WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 15.87)] FS Date: 12/2/2016 9:25:24 AM

Photo 3 of 3: UCIP_SP_2017_51133_67350.jpg



View of WS headwall.

| LM Start | 15.98 | Rating ** | U | Issue No. | | 64 | | |
|----------------------------------|--------------|--------------|---------------|------------------------|--------------|------------|--|--|
| LM End | 15.98 | Issue Type + | Ma | Location * | LS | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | Start | | End | | | |
| Item | Animal Co | ontrol | | 39.41439 | 97° | 39.414397° | | |
| пеш | | | -121.781596 ° | | -121.781596° | | | |
| DWR ID DWR_MA0013_02_f _ 2016_64 | | | | | | | | |
| | Commant Code | | | | | | | |

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



Photo 1 of 1: SP_2017_MA0013_301_64_20170315_00020.jpg

View of the rodent holes along the landside slope.

| * Location | |
|----------------|---------------------|
| LS: Land Side | N/A: Not Applicable |
| WS: Water Side | |
| CR : Crown | |

* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.02 | Rating ** | M | Issue No. | | 65 | | |
|------------|----------------------------------|--------------|----------|---------------|--------|-----------------|--|--|
| LM End | 16.02 | Issue Type + | En | Location * | | LS | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Category | | | | Start | | End | | |
| Item | Encroach | ments | | 39.4140 | 21 ° | 39.414021 ° | | |
| Item | | | | -121.782199 ° | | 9° -121.782199° | | |
| DWR ID | DWR ID DWR_MA0013_02_f _ 2016_65 | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| DE : Debri | s | | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

No Photos

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.07 | Rating ** | М | Issue No. | | 943 | | |
|----------|--------------|----------------|----|------------------------|---|-----------|---|--|
| LM End | 16.07 | Issue Type + | En | Location * | | LS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | Calegory | | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.413595° | | 39.413595 | 0 | |
| Item | | -121.782890 ° | | -121.782890 | 0 | | | |
| DWR ID | | | | | | | | |

Inspector Comment

Comment Code

FS ID:51134 DS_ID:16377 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was dry and photographed. LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking.6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtances in good condition.4/24/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under seperate permit. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). Pipe discharges into distribution box on the WS. Divers on dam in stream. Pump located on the WS berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the LS field. Provision can be made to send water over streambed to irrigation overflow area. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 16.26)]



Overview of levee crown.

FS Date: 12/2/2016 9:36:39 AM

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.07 | Rating ** | М | Issue No. | | 943 (cont) | |
|-----------------------------|--------|----------------|----|------------|-------|-------------|---|
| LM End | 16.07 | Issue Type + | En | Location * | | LS | |
| Category Supplemental GPS L | | | | GPS La | titud | e/Longitude | |
| Calegory | | | | | | End | |
| Item | DWR UC | IP Field Study | | 39.4135 | 95 ° | 39.413595 | 0 |
| пеш | | | | -121.7828 | 90 ° | -121.782890 | ٥ |
| DWR ID | | | | | | | |

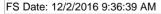
Comment Code

Inspector Comment

FS_ID:51134 DS_ID:16377 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was dry and photographed. LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking.6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtances in good condition.4/24/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under seperate permit. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). Pipe discharges into distribution box on the WS. Divers on dam in stream. Pump located on the WS berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the LS field. Provision can be made to send water over streambed to irrigation overflow area. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 16.26)]





Appurtances on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.07 | Rating ** | М | Issue No. | | 943 (cont) |
|----------|----------|------------------------------|----|------------|------|--------------|
| LM End | 16.07 | Issue Type + | En | Location * | LS | |
| Category | Suppleme | nental GPS Latitude/Longitud | | | | le/Longitude |
| Calegory | | | | | | End |
| Item | DWR UC | P Field Study | | 39.4135 | 95 ° | 39.413595 |
| пеш | | | | -121.7828 | 90 ° | -121.782890 |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51134 DS_ID:16377 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking. (DWR Sutter Yard- AFreitag)4/26/2016 LS headwall was dry and photographed. LS pipe end was about 50% plugged with soil. WS riser box is still cracked and appears to still be leaking.6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.12/4/2013 Same as last inspection.7/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtances in good condition.4/24/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under seperate permit. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). Pipe discharges into distribution box on the WS. Divers on dam in stream. Pump located on the WS berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the LS field. Provision can be made to send water over streambed to irrigation overflow area. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 16.26)] FS Date: 12/2/2016 9:36:39 AM



WS view of crossing.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.52 | Rating ** | U | Issue No. | | 54 | | |
|----------------------------------|--------------------------------------|----------------------|----------|-------------|--------|--------------|--|--|
| LM End | 16.52 | Issue Type + | Ma | Location * | | WS | | |
| Category | Earthen L | evee | | GPS La | atituc | le/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | Animal Control 39.409548 ° 39.409548 | | | | | | | |
| пеш | -121.789668 ° -121.78966 | | | | | | | |
| DWR ID DWR_MA0013_02_f _ 2014_54 | | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| A3 : No rocompact o | | le, but rodent rows. | burrows | visible; ne | ed to | backfill and | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of the rodent holes along the waterside slope.

| LM Start | 16.86 | Rating ** | М | Issue No. | | 944 | |
|----------|----------|-----------------|-------------------|------------|-----|-------------|---|
| LM End | 16.86 | Issue Type + En | | Location * | | WS | |
| Category | Suppleme | ental | GPS Latitude/Long | | | | |
| Calegory | Category | | Start | | End | | |
| Item | DWR UC | IP Field Study | | 39.40641 | 0 ° | 39.406410 | 0 |
| item | | | | -121.79460 | 0° | -121.794600 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51135 DS_ID:16841 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 11/17/2016 Unable to locate. (DWR Sutter Yard-AFreitag)4/26/2016 Unable to locate.6/30/2015 Unable to locate.5/28/2014 Same as last inspection.12/4/2013 Unable to

locate.7/08/2013 Same as last inspection. Unable to

locate.4/24/2012 Dense vegetation limited inspection will need to verify is an features are still present at this location during the next

inspection.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee at approximately 14.5 feet below the crown. Flap gate located on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM

FS Date: 12/2/2016 9:37:41 AM

No Photos

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 16.89 | Rating ** | M | Issue No. | | 20 | | |
|----------------------------------|-------------------------------------|--------------|----------|------------|--------|--------------|--|--|
| LM End | 18.72 | Issue Type + | En | Location * | | LS | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | Encroachments 39.406217 ° 39.389187 | | | | | | | |
| пеш | -121.794945 ° -121.821233 ° | | | | | | | |
| DWR ID DWR_MA0013_02_s _ 2012_20 | | | | | | | | |
| | | Comn | nent Cod | le | | | | |
| DT : Ditch | | | | | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of the agricultural ditch along the toe.

| LM Start | 17.41 | Rating ** | N | Issue No. | | 67 |
|--------------|---------------------------|------------------------|---------|------------|-------------|---------------|
| LM End | 17.41 | Issue Type + | Ma | Location * | | LS |
| Category | evee | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | Trim / Thi | n Trees | 39.4013 | 31 ° | 39.401331 ° | |
| item | | | | -121.8024 | 80° | -121.802480 ° |
| DWR ID | DWR_MA0013_02_f _ 2016_67 | | | | | |
| Comment Code | | | | | | |

T5 : Tree stumps.

Inspector Comment

Approximately eight stumps on the landside toe.

No Photos

| LM Start | 17.53 | Rating ** | М | Issue No. | | 68 |
|--|-------------------------|----------------|---------------|------------|--------------|--------------|
| LM End | 17.60 | Issue Type + | Ma | Location * | | LS |
| Category | Catagonia Earthen Levee | | | | atitud | le/Longitude |
| Category | Category | | | Start | | End |
| Item | Vegetatio | n | 39.4002 | 32° | 39.399603° | |
| Item | | | -121.804173 ° | | -121.805123° | |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_68 | | | |
| | | Comn | nent Cod | de | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | | and |
| | | Inspecto | or Comm | nent | | |
| Tules on th | ne landside | e toe. | | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS : Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 17.64 | Rating ** | М | Issue No. | | 69 | |
|------------|--------------|----------------|----------|------------|--------|---------------|--|
| LM End | 17.64 | Issue Type + | Ма | Location * | LS | | |
| Category | Earthen L | evee | | GPS L | atitud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Slope Sta | bility | | 39.3991 | 64° | 39.399164° | |
| пеш | | | | -121.8057 | '87 ° | -121.805787 ° | |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_69 | | | | |
| | | Comn | nent Cod | de | | | |
| S1 : Repai | ir slope ins | tability. | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |





View of slope instability issue along the landside slope.

| LM Start | 17.90 | Rating ** | М | Issue No. | | 70 |
|----------|---------------|----------------|------|------------------------|------|---------------|
| LM End | 17.90 | Issue Type + | Ma | Location * | | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Animal Co | ontrol | | 39.3968 | 09° | 39.396809° |
| item | | | | -121.8094 | 22 ° | -121.809422 ° |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_70 | | | |

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes along the landside slope.

| LM Start | 17.93 | Rating ** | М | Issue No. | | 71 | |
|----------|-----------|----------------|------------------------|------------|------|-------------|---|
| LM End | 17.93 | Issue Type + | Ма | Location * | | LS | |
| Category | Earthen L | | GPS Latitude/Longitude | | | | |
| Calegory | | | | | | End | |
| Item | Animal Co | ontrol | | 39.3964 | 65 ° | 39.396465 | 0 |
| пеш | | | | -121.80993 | 35 ° | -121.809935 | 0 |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_71 | | | | |

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes along the landside slope.

| * Location | ** Rating | | + Issue Type |
|-------------------------------------|--------------------------|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 18.16 | Rating ** | A/W | Issue No. | | 945 |
|----------|--------------|-----------------|------------|------------------------|-----|---------------|
| LM End | 18.16 | Issue Type + Ma | | Location * | | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.39440 |)6° | 39.394406 ° |
| пеш | | | | -121.81318 | 80° | -121.813180 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS ID:51138 DS_ID:16379 EP NO: N/A

LM End

Repair Type: No Action Needed Crossing Status: Found

Manual 519, June 1962 (HLM 18.37)]

18.16

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/26/2016 Crossing appears to be in good condition.6/30/2015 Vegetation still presenton WS. LS side was underwater during inspection.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope cleared of vegeatation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional

FS Date: 12/2/2016 9:40:13 AM Rating ** A/W Issue No. LM Start 18.16 945 (cont)

Ma

Location *

LS

Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Issue Type +

Photo 1 of 3: UCIP_SP_2017_51138_67387.jpg



Overview of crossing looking D/S at left bank of Cherokee Canal.



View of WS slope and berm.

Location Rating LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

: Acceptable Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type Ma: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 18.16 | Rating ** | A/W | Issue No. | | 945 (cont) | |
|----------|----------|--------------|------------|------------|--------------|-------------|---|
| LM End | 18.16 | Issue Type + | Ma | Location * | LS | | |
| Category | Suppleme | upplemental | | GPS La | le/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.39440 | 6° | 39.394406 | 0 |
| пеш | | | | -121.81318 | ° 0 | -121.813180 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51138 DS_ID:16379 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)4/26/2016 Crossing appears to be in good condition.6/30/2015 Vegetation still presenton WS. LS side was underwater during inspection.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 LS slope cleared of vegeatation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional

Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 18.37)] FS Date: 12/2/2016 9:40:13 AM

Photo 3 of 3: UCIP_SP_2017_51138_67390.jpg



View of flap gate located on WS.

| LM Start | 19.37 | Rating ** | M | Issue No. | | 21 |
|--------------|-----------|----------------|-------|------------|---------------|-------------|
| LM End | 19.92 | Issue Type + | En | Location * | | LS |
| Category | Earthen L | evee | | GPS La | e/Longitude | |
| Calegory | | | | Start | | End |
| Item | Encroach | ments | | 39.3832 | 52° | 39.378192 ° |
| пеш | | | | -121.8305 | -121.838543 ° | |
| DWR ID | DWR_MAG | 013_02_s _ 201 | 12_21 | | | |
| Comment Code | | | | | | |

DT : Ditch

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_301_21_20170315_00009.jpg



View of the agricultural ditch along the toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 19.92 | Rating ** | М | Issue No. | | 946 |
|----------|----------|--------------|------------|------------|--------------|---------------|
| LM End | 19.92 | Issue Type + | Ma | Location * | | LS |
| Category | Suppleme | ental | | GPS Lat | le/Longitude | |
| Calegory | | | | Start | | End |
| Item | DWR UC | P LMA Respo | onsibility | 39.37819 | B° | 39.378198° |
| пеш | | | | -121.83857 | o° | -121.838570 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51141 DS_ID:16375 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Erosion still present at WS headwall. (DWR Sutter Yard- AFreitag)4/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition.6/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.7/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.4/24/2012 Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 20.15)] FS Date: 12/2/2016 9:42:22 AM

| LM Start | 19.92 | Rating ** | М | Issue No. | 946 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 19.92 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51141_67401.jpg



Erosion behind WS headwall looking at the downstream edge of headwall.

Photo 2 of 3: UCIP_SP_2017_51141_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 19.92 | Rating ** | М | Issue No. | | 946 (cont) |
|----------|----------|--------------|------------|------------|-----|--------------|
| LM End | 19.92 | Issue Type + | Ma | Location * | LS | |
| Category | Suppleme | ental | | GPS Lat | tuc | le/Longitude |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP LMA Respo | onsibility | 39.37819 | 3° | 39.378198° |
| пеш | | | | -121.83857 | ° | -121.838570° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51141 DS_ID:16375 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Erosion still present at WS headwall. (DWR Sutter Yard- AFreitag)4/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition.6/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.7/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.4/24/2012 Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 20.15)] FS Date: 12/2/2016 9:42:22 AM

Photo 3 of 3: UCIP_SP_2017_51141_67402.jpg



Flap gate located on the WS.

| LM Start | 19.94 | Rating ** | М | Issue No. | 72 | | |
|----------|-----------|----------------|------|------------------------|----|-------------|---|
| LM End | 20.09 | Issue Type + | Ма | Location * | LS | | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | | |
| Category | | | | Start | | End | |
| Item | Vegetatio | n | | 39.37801 ² | ° | 39.376318 | 0 |
| item | | | | -121.838859 | ° | -121.840541 | 0 |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_72 | | | · | |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Tules on the landside toe.

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Otant | 20.43 | Rating ** | М | Issue No. | | 6 |
|---------------------------------|-------------------|-----------------|----------|------------------------|------|---------------|
| LM Start | 20.43 | rating | IVI | 13306 110. | | 0 |
| LM End | 20.74 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | |
| Category | | | | Start Er | | End |
| Item | Trim / Thin Trees | | | 39.3730 | 91 ° | 39.370795 ° |
| пеш | | | | -121.8452 | 25 ° | -121.850124 ° |
| DWR ID DWR_MA0013_02_s _ 2013_6 | | | | | | |
| | | Comn | nent Cod | le | | |
| T1 : Trim t | rees to at | least five feet | above g | round level. | | |
| | | | | | | |
| Inspector Comment | | | | | | |

Photo 1 of 1 : SP_2017_MA0013_301_6_20170315_00002.jpg

View of the overgrown trees along the landside slope.

| LM Start | 20.52 | Rating ** | М | Issue No. | | 73 |
|----------|-----------|----------------|------|-------------|--------|---------------|
| LM End | 20.52 | Issue Type + | Ma | Location * | | LS |
| Category | Earthen L | .evee | | GPS La | atitud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | Encroach | ments | | 39.3724 | 86° | 39.372486° |
| item | | | | -121.846537 | | -121.846537 ° |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_73 | | | · |

Comment Code

TR : Tree or limb

Inspector Comment

Remove the tree limbs from the landside slope and toe.



View of the tree limbs along the landside levee toe.

| LM Start | 20.65 | Rating ** | М | Issue No. | | 52 | |
|--------------|----------------------------------|--------------|-------|------------------------|------|---------------|--|
| LM End | 20.65 | Issue Type + | Ма | Location * | | LS | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | | |
| Calegory | Category | | Start | | End | | |
| Item | Encroach | ments | | 39.37143 | 33 ° | 39.371433 ° | |
| пеш | | | | -121.8487 | 53 ° | -121.848753 ° | |
| DWR ID | DWR ID DWR_MA0013_02_s _ 2014_52 | | | | | | |
| Comment Code | | | | | | | |

TR : Tree or limb

Inspector Comment

Remove the tree limbs from the landside slope and toe.



View of the tree limbs along the landside toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.74 | Rating ** | N | Issue No. | | 74 | | | |
|-------------|----------------------------------|--------------|----------|--------------|--------|--------------|--|--|--|
| LM End | 20.74 | Issue Type + | Ma | Location * | | LS | | | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | Trim / Thin Trees | | | 39.3707 | 96° | 39.370796° | | | |
| пеш | | | | -121.850124° | | -121.850124° | | | |
| DWR ID | DWR ID DWR_MA0013_02_f _ 2016_74 | | | | | | | | |
| | | Comn | nent Coo | le | | | | | |
| T5 : Tree s | stumps. | | | | | | | | |
| | | | | | | | | | |
| | Inspector Comment | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

No Photos

| LM Start | 20.76 | Rating ** | U | Issue No. | | 947 |
|----------|----------------------|--------------|----|------------------------|-----|---------------|
| LM End | 20.76 | Issue Type + | En | Location * | | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP Field Study | | | 39.370676° | | 39.370676° |
| | | | | -121.8504 | 90° | -121.850490 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51146 DS_ID:16383 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - AFreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/8/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/19/2012 LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 1 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)] FS Date: 12/2/2016 9:43:00 AM

Photo 1 of 3: UCIP_SP_2017_51146_67406.jpg

Corrugated metal pipe risers with slide gates located on WS slope.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.76 | Rating ** | U | Issue No. | | 947 (cont) |
|----------|------------------------|----------------------|-----------------|-----------|-----|---------------|
| LM End | 20.76 | Issue Type + | Issue Type + En | | | LS |
| Category | GPS Latitude/Longitude | | | | | |
| Calegory | Category | | | | | End |
| Item | DWR UC | DWR UCIP Field Study | | | | 39.370676 ° |
| пеш | | | | -121.8504 | 90° | -121.850490 ° |
| DWR ID | | | | | | |

Comment Code

Inspector Comment

FS_ID:51146 DS_ID:16383 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - AFreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/8/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/19/2012 LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 1 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown.

Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]

FS Date: 12/2/2016 9:43:00 AM

| LM Start | 20.76 | Rating ** | U | Issue No. | 947 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 20.76 | Issue Type + | En | Location * | LS |



Corrugated metal pipe riser for pipe 1 of 3. Slide gate is missing handle.



Sink hole observed behind WS headwall at the downstream edge of headwall. (Sink hole picture 1 of 2)

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type
Ma: Maintenance Deficiancy

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.76 | U | Issue No. | | 948 | | |
|----------------------|--------------|-----------------------|-----------|---------|------------------------|------------|--|
| LM End | 20.76 | 20.76 Issue Type + En | | | | LS | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| DWR UCIP Field Study | | | | 39.3706 | 79° | 39.370679° | |
| Item | | | -121.8505 | 00 ° | -121.850500 ° | | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51145 DS_ID:17014 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 2 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)] FS Date: 12/2/2016 9:44:00 AM

| LM Start | 20.76 | Rating ** | U | Issue No. | 948 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 20.76 | Issue Type + | En | Location * | LS |



WS view of corrugated metal pipe risers .



Riser for pipe 2 of 3.

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.76 | Rating ** | U | Issue No. | | 948 (cont) | |
|---------------------------|------------------------|--------------|------------|-----------|-----|-------------|---|
| LM End | 20.76 | Issue Type + | Location * | | LS | | |
| Catagony | GPS Latitude/Longitude | | | | | | |
| Calegory | Category | | | Start | | End | |
| ltem DWR UCIP Field Study | | | | 39.3706 | 79° | 39.370679 | 0 |
| | | | | -121.8505 | 00° | -121.850500 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51145 DS_ID:17014 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 2 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterside (WS) slope. Pump structure on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)] FS Date: 12/2/2016 9:44:00 AM



View of pipe 2. Pipe 2 diverts flow to pipe 1.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.76 | Rating ** | U | Issue No. | | 949 | |
|----------------------|-------|-----------------|---------|------------------------|-----------|-------------|---|
| LM End | 20.76 | Issue Type + En | | Location * | | LS | |
| Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| DWR UCIP Field Study | | | 39.3706 | 79° | 39.370679 | 0 | |
| Item | | | | -121.8505 | 00° | -121.850500 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51144 DS_ID:17185 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner. (DWR UCIP omagana)

FIELD_STRUCT_DESC: 3 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates in corrugated metal pipe risers on the waterside (WS) slope. Pump structure located on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]

FS Date: 12/2/2016 9:44:48 AM

| LM Start | 20.76 | Rating ** | U | Issue No. | 949 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 20.76 | Issue Type + | En | Location * | LS |



View of corrugated metal risers located on WS.



View of corrugated metal pipe for pipe 3 of 3.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 20.76 | Rating ** | U | Issue No. | | 949 (cont) | |
|----------|--------------|-----------------|----|------------|-------|--------------|--|
| LM End | 20.76 | Issue Type + | En | Location * | LS | | |
| Category | Supplemental | | | GPS La | titud | le/Longitude | |
| Calegory | | | | Start | | | |
| Item | DWR UC | CIP Field Study | | 39.3706 | 79° | 39.370679 | |
| пеш | | | | -121.85050 | 00 ° | -121.850500 | |
| DWB ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51144 DS_ID:17185 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - AFreitag)4/26/2016 No repairs have been made at this crossing yet. (DWR Sutter Yard - afreitag)6/30/2015 Crossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion. (DWR Sutter Yard - afreitag)5/28/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/08/2013 Same as last inspection. (DWR Sutter Yard - afreitag)4/24/2012 Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 3 of 3: 16-inch steel irrigation pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates in corrugated metal pipe risers on the waterside (WS) slope. Pump structure located on the WS end. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.00)]

FS Date: 12/2/2016 9:44:48 AM



View of Pipe 3 of 3 from WS headwall.

| LM Start | 20.77 | Rating ** | М | Issue No. | | 75 | | |
|----------------------------------|--------------|-----------------------|------------------------|------------|------|---------------|--|--|
| LM End | 20.77 | Issue Type + | Ма | Location * | | WS | | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | | |
| Item | Erosion / | Erosion / Bank Caving | | | 41 ° | 39.370641 ° | | |
| item | | | | -121.8505 | 72 ° | -121.850572 ° | | |
| DWR ID DWR_MA0013_02_f _ 2016_75 | | | | | | | | |
| | Comment Code | | | | | | | |

E1: Note and monitor erosion site.

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_301_75_20170315_00025.jpg



View of the erosion along the waterside toe.

| * Location | | ** Rating | | + Issue Type |
|----------------|---------------------|--------------------------|---|-----------------------------------|
| LS: Land Side | N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiancy |
| WS: Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.35 | Rating ** | М | Issue No. | | 950 | |
|----------|--------------|-------------------------|----|------------------------|------|-------------|---|
| LM End | 21.35 | Issue Type + | Ма | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | End | | |
| Item | DWR UC | UCIP LMA Responsibility | | 39.3661 | 55 ° | 39.366155 | 0 |
| пеш | | | | -121.859880 ° | | -121.859880 | 0 |
| DWR ID | | | | | | | |

Inspector Comment

Comment Code

FS_ID:51147 DS_ID:16384 EP_NO: N/A

present.

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (DWR Sutter Yard AFreitag)4/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.5/28/2014 Same as last inspection, 12/4/2013 Same as last inspection.7/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.4/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of exisiting pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962

(HLM 21.60)] FS Date: 12/2/2016 9:56:00 AM



Overview of crossing looking downstream.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.35 | Rating ** | М | Issue No. | | 950 (cont) | | | |
|----------|--------------|------------------------|----|-------------------------------------|------|-------------|---|--------------|--|
| LM End | 21.35 | Issue Type + | Ма | Location * | WS | | | | |
| Category | Supplemental | | | Supplemental GPS Latitude/Longitude | | | | le/Longitude | |
| Calegory | | | | Start | | End | | | |
| Item | DWR UC | CIP LMA Responsibility | | 39.3661 | 55 ° | 39.366155 | 0 | | |
| пеш | | | | -121.8598 | 80 ° | -121.859880 | 0 | | |
| DWR ID | | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51147 DS_ID:16384 EP_NO: N/A

present.

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (DWR Sutter Yard - AFreitag)4/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.4/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of exisiting pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 21.60)]

USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate

FS Date: 12/2/2016 9:56:00 AM



View of WS daylight. Hole present at pipe daylight.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.35 | Rating ** | М | Issue No. | | 950 (cont) | | |
|----------|--------------|--------------|------------------------|------------|------|---------------|--|--|
| LM End | 21.35 | Issue Type + | Ма | Location * | | WS | | |
| Category | Suppleme | ental | GPS Latitude/Longitude | | | | | |
| Calegory | megory | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.36615 | 55 ° | 39.366155 ° | | |
| пеш | | | | -121.85988 | 30° | -121.859880 ° | | |
| DWR ID | | | | | | | | |
| | Comment Code | | | | | | | |

Inspector Comment

FS_ID:51147 DS_ID:16384 EP_NO: N/A

present.

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (DWR Sutter Yard AFreitag)4/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.5/28/2014 Same as last inspection, 12/4/2013 Same as last inspection.7/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.4/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of exisiting pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962

(HLM 21.60)] FS Date: 12/2/2016 9:56:00 AM



WS-view of internal pipe with severe corrosion-holes present along pipe wall.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsol

Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.83 | Rating ** | М | Issue No. | | 951 | |
|----------|--------------|--------------|------------|------------------------|-----|-------------|---|
| LM End | 21.83 | Issue Type + | Ма | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | P LMA Respo | onsibility | 39.3623 | 78° | 39.362378 | 0 |
| пеш | | | | -121.8673 | 50° | -121.867350 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51149 DS_ID:16394 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 WS flap gate is really rusted and deteriorated but it appears to still function properly. (DWR Sutter Yard - AFreitag)4/26/2016 WS flap gate is really rusted and deteriorated. May need to be replaced. The rest of the crossing appeared in good condition.6/30/2015 Crossing is in good condition. No noticeable issues to be reported.5/28/2014 Same as last inspection.12/4/2013 WS ans LS slopes are in good condition.7/08/2013 Same as last inpsection.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0251 for no outlet visible on WS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). Rusted gate located on the WS (gate stuck). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.08)]

FS Date: 12/2/2016 9:58:16 AM

| LM Start | 21.83 | Rating ** | M | Issue No. | 951 (cont) |
|----------|-------|--------------|----|------------|------------|
| I M End | 21.83 | Issue Type + | Ma | Location * | WS |



Overview of crossing looking upstream at the left bank of Cherokee Canal.



View of WS headwall.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.83 | Rating ** | М | Issue No. | | 951 (cont) | |
|----------|----------|--------------|-----------|------------|-------|--------------|---|
| LM End | 21.83 | Issue Type + | Ма | Location * | WS | | |
| Category | Suppleme | ental | | GPS La | titud | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.3623 | 78° | 39.362378 | 0 |
| пеш | | | | -121.8673 | 50° | -121.867350 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS_ID:51149 DS_ID:16394 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 WS flap gate is really rusted and deteriorated but it appears to still function properly. (DWR Sutter Yard - AFreitag)4/26/2016 WS flap gate is really rusted and deteriorated. May need to be replaced. The rest of the crossing appeared in good condition.6/30/2015 Crossing is in good condition. No noticeable issues to be reported.5/28/2014 Same as last inspection.12/4/2013 WS ans LS slopes are in good condition.7/08/2013 Same as last inpsection.4/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0251 for no outlet visible on WS.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). Rusted gate located on the WS (gate stuck). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.08)]

FS Date: 12/2/2016 9:58:16 AM

Photo 3 of 3: UCIP_SP_2017_51149_67461.jpg



Flap gate located on WS.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 21.86 | Rating ** | М | Issue No. | sue No. 952 | | |
|----------|--------------|----------------|----|------------------------|-------------|---------------|--|
| LM End | 21.86 | Issue Type + | En | Location * | WS | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 39.36210 | 3° | 39.362103 ° | |
| пеш | | | | -121.86782 | 0 ° | -121.867820 ° | |
| DWR ID | | | | | | · | |

Comment Code

Inspector Comment

FS_ID:51151 DS_ID:16374 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 11/17/2016 Splice box still present at LS toe. (DWR Sutter Yard - AFreitag)4/26/2016 Communication Splice box was still present. Not sure what was done to ever resolve the encroachment issue.6/30/2015 Same as last inspection.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection.4/24/2012 Unauthorized Encroachment. This crossing is listed multiple times in the USACE Periodic Inspection report as USACE_CESPK_M13E_2011_p_0307, 0315, 0317, 0318 for slope failure on LS hinge. DWR-Flood Maintenance Office records shows that CVFPB has requested AT&T to remove conduit in June 2, 2009 letter. LMA working with CVFPB to resolve.

FIELD_STRUCT_DESC: *ILLEGAL ENCROACHMENT* Underground telephone cable through the levee. Depth unknown. (AT&T) START latitude 39.36210336, longitude -121.8678207 END latitude 39.35458541, longitude -121.8823409. Line extends from Gridley Colusa Highway to the south end of project levee along landside (LS) shoulder and levee crown hinge point. Levee sloughs along cable trench after heavy rains. [Additional Reference(s): DWR Levee Log, 1993]

FS Date: 12/2/2016 10:00:38 AM

| Photo 1 of 1 : UCIP_SP_2 | 2017_51151_67480.jpg |
|--------------------------|-----------------------|
| | |
| | and the second second |



View of utility line located on LS toe.

| LM Start | 21.87 | Rating ** | U | Issue No. | | 59 | |
|------------|-----------|----------------|----------|---------------|--------|--------------|---|
| LM End | 22.09 | Issue Type + | En | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | |
| Category | | | | Start | | End | |
| Item | Encroach | ncroachments | | | 22° | 39.360294 | |
| Item | | | | -121.867949 ° | | -121.871339 | 0 |
| DWR ID | DWR_MAG | 013_02_s _ 201 | 6_59 | | | | |
| | | Comn | nent Cod | de | | | |
| DT : Ditch | | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Ctort | 22.02 | Rating ** | М | Issue No. | | 63 | |
|--|------------|--------------|----------|------------|--------|---------------|--|
| LM Start | 22.02 | rating | IVI | 13306 110. | | 03 | |
| LM End | 22.09 | Issue Type + | Ma | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude | |
| Category | | | | Start | | End | |
| Item | Trim / Thi | n Trees | | 39.3608 | 42° | 39.360322 ° | |
| пеш | | | | -121.8703 | ° 00 | -121.871318 ° | |
| DWR ID DWR_MA0013_02_s _ 2017_63 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| T3: Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| Trim the trees along the landside toe for visibility. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of the trees along the landside toe.

| LM Start | 22.03 | Rating ** | A/W | Issue No. | | 58 |
|----------------------------------|-----------|--------------|-----|------------|-------|---------------|
| LM End | 22.03 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen L | evee | | GPS La | titud | le/Longitude |
| Calegory | Oly | | | Start | | End |
| Item | Vegetatio | n | | 39.360747° | | 39.360747° |
| Item | | | | -121.87049 | 93 ° | -121.870493 ° |
| DWR ID DWR_MA0013_02_s _ 2016_58 | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |

V7: Trees / Woody Vegetation

Inspector Comment

Fallen tree on LS slope

No Photos

| LM Start | 22.07 | Rating ** | М | Issue No. | | 4 |
|------------|-----------|----------------|----------|------------|--------|---------------|
| LM End | 22.13 | Issue Type + | En | Location * | | LS |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude |
| Calegory | | | | Start | | End |
| Item | Vegetatio | n | | 39.3604 | 10° | 39.359920 ° |
| пеш | | | | -121.8711 | 25 ° | -121.872067 ° |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 2_4 | | | |
| | | Comn | nent Cod | le | | |
| V6 : Lands | caping | | | | | |
| | | | | | | |
| | | Inspecto | or Comm | nent | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



View of landscaping along the toe.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 22.15 | Rating ** | М | Issue No. | | 953 | |
|----------|--------|--------------|-----------|------------------------|-----|---------------|--|
| LM End | 22.15 | Issue Type + | Ма | Location * | | LS | |
| Category | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | nsibility | 39.35982 | 7° | 39.359827° | |
| пеш | | | | -121.87230 | 0 ° | -121.872300 ° | |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS ID:51154 DS_ID:16391 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. Ws

appears to be in good condition. (DWR Sutter Yard -

AFreitag)4/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS.6/30/2015 Still unable to locate the LS headwall and pipe end.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection. Unable to locate LS headwall.4/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 15.3 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. This pipe runs on an angle through the levee, then underground along the LS slope to historic levee mile (HLM) 22.39 where it enters a ditch on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.41)] FS Date: 12/2/2016 10:02:34 AM

| LM Start | 22.15 | Rating ** | М | Issue No. | 953 (cont) |
|----------|-------|--------------|----|------------|------------|
| LM End | 22.15 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: UCIP_SP_2017_51154_67498.jpg



View of WS slope looking from WS headwall to levee crown.

Photo 2 of 3: UCIP_SP_2017_51154_67496.jpg



View of WS slope looking from WS headwall to levee crown.

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 22.15 | Rating ** | М | Issue No. | | 953 (cont) | |
|----------|----------|--------------|------------|------------|-------|-------------|---|
| LM End | 22.15 | Issue Type + | Ma | Location * | | LS | |
| Category | Suppleme | ental | | GPS La | titud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | IP LMA Respo | onsibility | 39.3598 | 27° | 39.359827 | 0 |
| пеш | | | | -121.8723 | 00 ° | -121.872300 | 0 |
| DWR ID | | | | | | | |

Comment Code

Inspector Comment

FS ID:51154 DS_ID:16391 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/17/2016 Unable to locate LS pipe end. Ws

appears to be in good condition. (DWR Sutter Yard -

AFreitag)4/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS.6/30/2015 Still unable to locate the LS headwall and pipe end.5/28/2014 Same as last inspection.12/4/2013 Same as last inspection.7/08/2013 Same as last inspection. Unable to locate LS headwall.4/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 15.3 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. This pipe runs on an angle through the levee, then underground along the LS slope to historic levee mile (HLM) 22.39 where it enters a ditch on the LS. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.41)] FS Date: 12/2/2016 10:02:34 AM

Photo 3 of 3: UCIP_SP_2017_51154_67497.jpg



View of flap gate on WS.

| LM Start | 22.16 | Rating ** | М | Issue No. | | 8 | |
|---------------|-----------------------------|--------------|----|------------------------|------|---------------|--|
| LM End | 22.16 | Issue Type + | Ma | Location * | | LS | |
| Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | Category | | | Start | | End | |
| Item | Encroachments | | | 39.359707° | | 39.359707 ° | |
| пеш | | | | -121.8725 | 55 ° | -121.872555 ° | |
| DWR ID | ID DWR_MA0013_02_s _ 2012_8 | | | | | | |
| Comment Code | | | | | | | |
| PR : Prunings | | | | | | | |

Inspector Comment

Photo 1 of 1: SP_2017_MA0013_301_8_20170315_00003.jpg



View of the debris and prunings along the landside toe.

A: Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C: Corrected

Issue Type Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 22.33 | Rating ** | A/W | Issue No. | | 62 | |
|-------------------|-----------|----------------|----------|------------|--------|---------------|--|
| LM End | 22.33 | Issue Type + | Ma | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Slope Sta | bility | | 39.3584 | 19° | 39.358419° | |
| item | | | | -121.8750 | 88° | -121.875088 ° | |
| DWR ID | DWR_MA0 | 013_02_s _ 201 | 6_62 | | | | |
| | | Comn | nent Cod | de | | | |
| | | | | | | | |
| Inspector Comment | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of slope instability issue along the landside slope.

| LM Start | 22.37 | Rating ** | М | Issue No. | | 76 |
|---------------|------------|----------------|--------|------------|--------------|---------------|
| LM End | 22.37 | Issue Type + | Ма | Location * | | LS |
| Earthen Levee | | | GPS La | titud | le/Longitude | |
| Category | | | | Start | | End |
| Item | Trim / Thi | n Trees | | 39.3580 | 18° | 39.358018 ° |
| пеш | | | | -121.8758 | 15 ° | -121.875815 ° |
| DWR ID | DWR_MA0 | 013_02_f _ 201 | 6_76 | | | |
| | | | | | | |

Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

| LM Start | 22.54 | Rating ** | М | Issue No. | | 77 | |
|--------------------------------|---------------------------|--------------|----|------------------------|-----|---------------|--|
| LM End | 22.54 | Issue Type + | Ма | Location * | LS | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | |
| | | | | Start | | End | |
| Item | Slope Stability | | | 39.356775° | | 39.356775 ° | |
| nem | | | | -121.8784 | 17° | -121.878417 ° | |
| DWR ID | DWR_MA0013_02_f _ 2016_77 | | | | | | |
| Comment Code | | | | | | | |
| S1 : Repair slope instability. | | | | | | | |
| | | | | | | | |
| Inspector Comment | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



View of slope instability issue along the landside slope.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable CR: Corrected U: Unacceptable W: Acceptable U: Unacceptable W: Acceptable W: Acceptable Dut Monitor & Maintain Enforcement

* Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

05/04/2017

MA0013

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0013

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|----------------------------|------|------------|--------------------------|---------------|
| Unit No. 02 Cherokee Canal | Left | 22.84 | 05/04/2017 05/04/2017 | Bob Duffey |

| LM Start | 22.58 | Rating ** | U | Issue No. | | 66 | |
|--|---------------------------|--------------|----|------------------------|-----|---------------|--|
| LM End | 22.58 | Issue Type + | Ma | Location * | LS | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | |
| | | | | Start | | End | |
| Item | Slope Stability | | | 39.356423 ° | | 39.356423° | |
| | | | | -121.8791 | 10° | -121.879110 ° | |
| DWR ID | DWR_MA0013_02_s _ 2017_66 | | | | | | |
| Comment Code | | | | | | | |
| S1 : Repair slope instability. | | | | | | | |
| Inspector Comment | | | | | | | |
| Repair the erosion along the landside slope. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Photo 1 of 1 : SP_2017_MA0013_301_66_20170508_00150.jpg

View of the erosion along the landside slope.